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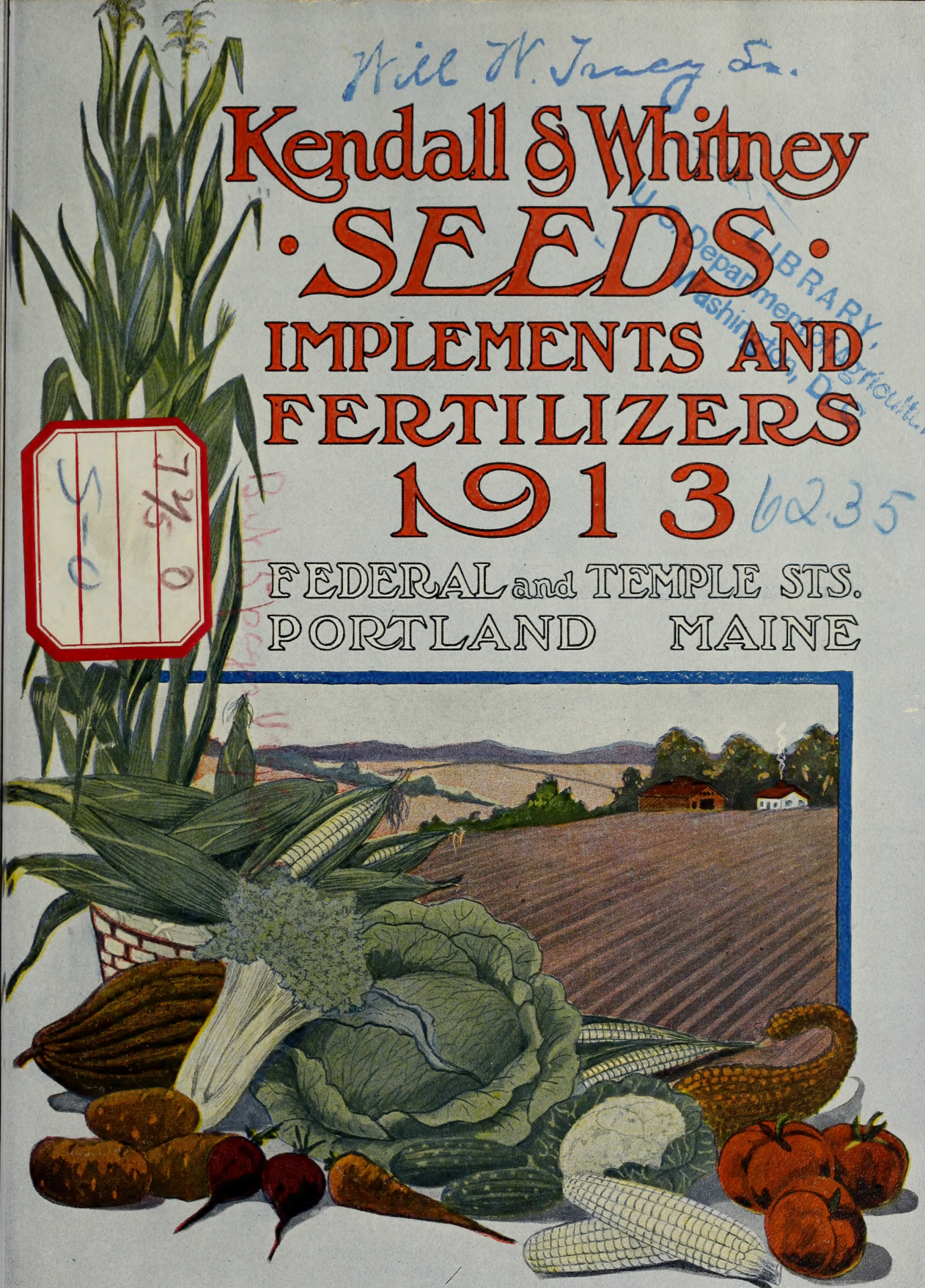
Will H. Tracy Jr.

Kendall & Whitney SEEDS

IMPLEMENTS AND
FERTILIZERS

1913 *62.35*

FEDERAL and TEMPLE STS.
PORTLAND MAINE



1913



FOR FIFTY-FIVE YEARS we have been supplying our customers **Seeds of the finest quality obtainable, and Implements the most perfect mechanical genius can devise**, and we take the opportunity through this Catalogue to thank our many friends for their generous patronage in the past, and to assure them that we will continue to do all in our power to merit a continuance of their business.

It is our aim to please you; kindly let us have your order again for the coming season, and no matter how small or how large, we will try to fill it to your complete satisfaction.

It is important that orders be sent to us **as soon after receipt of Catalogue as convenient**, that we may be able to give the quickest possible shipments, and we would suggest that anyone failing to receive **prompt** shipments should inform us, as it frequently happens that orders reach us **without a signature**, so please give your **Name, Post Office, County and State** in full, as plainly as possible, your name **especially written very distinctly**.

We urge customers to inform us promptly on the arrival of orders if anything proves otherwise than expected. Mail orders receive the same careful attention that customers do over our counters, but if errors occur, we are willing and anxious to correct them.



Market Gardeners, and others requiring large quantities of seeds, are invited to write us for quotations. : : : :

Greenhouse plants furnished at short notice.

Seeds forwarded by **Mail, Express or Freight**, as the purchaser may wish.

In shipping we make no charge for delivery to railroads or express companies.

Bags charged at cost.

Prices quoted in our Catalogue are subject to change without notice.

All sums to the amount of one dollar and upwards may be sent at our risk if forwarded according to the following directions, viz.: by Post Office Money Orders, Bank Drafts or Cash sent in a Registered Letter.

ALL CORRESPONDENCE ANSWERED PROMPTLY

While we exercise the greatest care to have all seeds pure and reliable, we do not give any warranty, Expressed or Implied. If the purchaser does not accept the Seeds on these conditions they must be returned at once.—K. & W.

KENDALL & WHITNEY

Kendall & Whitney's

ILLUSTRATED AND DESCRIPTIVE

CATALOGUE

1913

OF

GARDEN, FIELD
AND FLOWER
SEEDS

1913

SEED MERCHANTS
GROWERS AND
IMPORTERS

AND DEALERS IN

Agricultural and Horticultural Implements, Insecticides, Fertilizers, Poultry and Dairy Supplies, Wooden Ware, Galvanized Iron Ware, Brooms, Brushes, Cordage, Etc.

KENDALL & WHITNEY

Federal and Temple Streets, Portland, Maine

BRIEF HINTS

ON THE SOWING AND CULTIVATION OF

FLOWER SEEDS

THE SOIL AND ITS PREPARATION.



THE best soil for annuals and for most flowering plants is a light, rich loam. In such they grow readily and attain to great perfection of bloom with but little care. Deep and thorough trenching in the autumn, if possible, and the application of very old or decayed manure or leaf mold, will give the amateur a well prepared and suitable soil.

Where the soil is too light, a thin layer of clay, if to be had, should be spread over the surface in the autumn, and dug in—after being pulverized by the winter frosts—in the spring. This, with the use of old manure, will keep the garden in good condition. No unvarying rules can be given; much must be left to the judgment of the amateur. He must understand that the soil of a good garden should be deep, well pulverized, friable and rich.

Where the flower garden is a specialty, then more pains ought to be taken, and those who are about to do this, if they have not the requisite information, will consult something more than a catalogue. Our hints are intended for the mass of the people who love flowers, and do not wish to incur great expense in the gratification of their taste.

PERIOD FOR SOWING.

This must depend much upon the season as well as the locality. As a general rule for New England, the proper time to commence sowing is about the last of April, though a few sorts may be planted as soon as the ground can be got ready; and for a succession the sowing should be continued until June. To avoid all danger of injury, the sowing may be deferred, but when a little labor is of no consideration the sowing may be made earlier, and, in case of failure or injury from frost or wet, another sowing may be made when the weather is more favorable.

It is the great error to cover too deeply, and the cause of more than half of the complaints against seedmen of selling old and worthless seeds comes from inexperience and want of judgment in sowing. No rule can be given in this respect, but, as a general guide, all large seeds may be sown half an inch deep; smaller, less, and for the smallest, a covering of one-sixteenth of an inch will suffice. If sown too deeply they are longer in germinating, and are liable to decay. Avoid the general error of sowing the seeds too thickly, as it causes an elongated and feeble growth, which no subsequent thinning will entirely remedy.

As soon as the seedlings have made three or four leaves, and are an inch high, they should be thinned out. If they are kinds which will bear removal, they may be replanted in vacant spaces. Stir the soil around the plants from time to time, and, if they appear crowded, a second thinning will be of great benefit to those that remain. If the growth is not strong from the nature of the soil, apply occasionally a small amount of phosphate or bone dust.

Transplanting should, if possible, always be done in cloudy weather. If the soil is dry the plants will require a light watering, to settle the earth around the roots, and if warm, sunny days succeed the operation, they will root all the better to have shade for a day or two.

GARDEN REQUISITES.

There are several aids to the economical management of the garden, which are almost indispensable; one of these is the *hot-bed* frame for the forwarding of plants for early planting—a frame made of various sizes, according to the size of the garden, from four sashes upward. The length of sash is generally six feet, by three wide, the size of glass six by eight inches. The frame should have a southern or a southeastern exposure; should be made up of fresh horse manure, and a few leaves mixed with it; this must be laid in a heap preparatory to being used, and when in a proper state of fermentation, prepared for the reception of the frame. A few inches of rich, loamy soil must be spread over the manure; then cover the frame with the sashes, and after standing a few days, to allow the rank heat and steam to pass off, the seed can be sown. Where the ground is well drained, a better plan is to dig out a space the size of the frame, one or two feet deep, according to the season and the heat required, in which the manure is placed, care being taken to pack firmly and evenly.

SEEDS IN PACKETS OR OUNCES.

The following may be selected from our Catalogue, at the prices named, and will be forwarded, postage free, to any part of the United States:


Purchasers remitting \$1.00 may select seeds (in PACKETS OR OUNCES only) at Catalogue prices, amounting to \$1.25.

Purchasers remitting \$2.00 may select seeds (in PACKETS OR OUNCES only) at Catalogue prices, amounting to \$2.50.

Purchasers remitting \$3.00 may select seeds (in PACKETS OR OUNCES only) at Catalogue prices, amounting to \$4.00.

Purchasers remitting \$4.00 may select seeds (in PACKETS OR OUNCES only) at Catalogue prices, amounting to \$5.50.

Purchasers remitting \$5.00 may select seeds (in PACKETS OR OUNCES only) at Catalogue prices, amounting to \$7.00.

 **Seeds when ordered in LARGER AMOUNTS than the above (as quarts or pounds) WILL NOT BE INCLUDED, NOR PLANTS OR BULBS.**

Condensed Information Concerning the Parcels Post.

RATES OF POSTAGE FOR 4TH CLASS MERCHANDISE.

ZONE DISTANCES.	First Pound.	Each Additional Pound.	Eleven Pounds.
Portland and rural delivery	\$0.05	\$0.01	\$0.15
Within 50 miles . . . . .	.05	.03	.35
50 to 150 miles . . . . .	.06	.04	.46
150 to 300 miles . . . . .	.07	.05	.57
300 to 600 miles . . . . .	.08	.06	.68
600 to 1,000 miles . . . . .	.09	.07	.79
1,000 to 1,400 miles . . . . .	.10	.09	1.00
1,400 to 1,800 miles . . . . .	.11	.10	1.11
*1,800 miles and over . . . . .	.12	.12	1.32

*Includes non-contiguous possessions.

RESTRICTIONS.

Weight limit, 11 pounds.

Size limit, 72 inches in length and girth combined.

Four ounces or under, 1 cent per ounce.

Over four ounces considered one pound.

Fractional pounds considered pounds.

SPECIAL.

Seeds and bulbs do not come under 4th class matter, but will be permitted in the parcels post mails under regulations as to size and weight applicable to other parcels post packages, but at the rate of postage of one cent for two ounces or fraction thereof, regardless of distance.

Classification excludes matter of a character perishable within a period reasonably required to transport and deliver, and parcels of form and kind likely to injure postal employees or equipment or other mail matter.



A Descriptive List of FLOWER SEEDS

FLOWER SEEDS SENT FREE BY MAIL
ON RECEIPT OF PRICE

ABRONIA UMBELLATA.



Handsome, trailing annuals, with clusters of sweet-scented flowers resembling the verbenas. Fine for baskets or for the garden. Blooms from August until October.....

Per Pkt.

5



ACROLINIUM.

An elegant, half-hardy annual, producing beautiful everlasting flowers. Grows about one foot high.

ALBUM. Pure white..... 5

ROSEUM. Bright rose color.... 5

MIXED..... 5

ABRONIA UMBELLATA.

ADONIS.

A hardy annual, with very pretty foliage, producing bright red flowers. Grows about one foot high and blooms for a long time.....

5

AGERATUM.

Half-hardy, free-flowering annuals, blooming throughout the season. Fine for beds or borders.

FINE MIXED. 1 ft..... 5

IMPERIAL DWARF BLUE. 8 in. 5

PERFECTION DARK BLUE. 1 ft. 5



AGERATUM.



ALYSSUM.

A hardy annual, about eight inches high, with clusters of small, fragrant flowers. Fine for bedding and bouquets.

SWEET. White; 1 ft. 5

SAXATILE COMPACTA. Yellow. 3/4 ft.; hardy perennial..... 5

TOM THUMB. Very dwarf; white..... 5

ALYSSUM.

ANTIRRHINIUM. (Snap Dragon.)



ANTIRRHINIUM.

Per Pkt.

A very showy and half-hardy perennial, about two feet high, flowering well the first season. Sow the seeds early, in pots or under glass.

ALBUM. Pure white 5

BRILLIANT. Scarlet and golden, white throat.. 5

FIREFLY. Scarlet and white..... 5

FIRE KING. Rose, with orange; fine..... 5

GALATHEE. Crimson, white throat..... 5

LILACINUM. Lilac..... 5

LUTEUM. Yellow..... 5

NIGRESCENS. Nearly black..... 5

BEST MIXED VARIETIES 5

AMARANTHUS.

Half-hardy annuals, about two feet high, with finely variegated foliage. They are most brilliant on poor soil and in dry seasons.

TRICOLOR..... 5

AMMOBIUM ALATUM.

A useful everlasting for making dried winter bouquets and a showy border plant, growing freely in any garden soil. Hardy annual.

WHITE. 2 ft..... 5

AMPELOPSIS—Veitchii. (Boston Ivy.)

Popular, rapid-growing, hardy vine. Adheres firmly to stone or brick, foliage turning very brilliant in the autumn.

5

ANAGALLIS.

Beautiful, trailing, hardy annuals, about six inches high, and very desirable for small beds, edgings, baskets, etc.

MIXED..... 5

ASPERULA.

A most profuse-blooming, hardy annual, attaining an average growth of one foot, the flowers of which are a beautiful light blue, are very sweet scented, and last a long while in perfection. 1 ft.

5

ASTER.

Very beautiful and popular half-hardy annuals, growing from ten to eighteen inches high. For profusion of flowers and richness of display, the asters are unrivalled. Sow the seed early in the spring, under glass or in pots in the house, and transplant into rich soil, about one foot apart.

ASTER—Continued.

Per Pkt.

COCARDEAU OR CROWN. The flowers of this variety have large white centers bordered with scarlet, carmine, violet or blue; attractive and beautiful; 1½ ft. 10

DWARF PYRAMIDAL BOUQUET. The plants, when well grown, form a complete bouquet of flowers of splendid mixed colors; 1 ft. 10

DWARF CHRYSANTHEMUM FLOWERED. A free bloomer, with large flowers; mixed; 1 ft. 10

TALL CHRYSANTHEMUM FLOWERED. Taller than the preceding; mixed 10



QUILLED ASTER.

ROSE FLOWERED. A fine variety; flowers very double; mixed; 2 ft. 10

TRUFFAUT'S PEONY-FLOWERED PERFECTION. An early flowering variety; flowers very double; fine mixed colors; 2 ft. 10

MIGNON. A class of semi-dwarf habit, flowering profusely; very popular, especially with florists.

PURE WHITE. 10

MIXED COLORS. 10

GERMAN QUILLED. Perfectly double quilled flowers of beautiful mixed colors; 2 ft. 5

COMET. A variety of great beauty. Grows in pyramidal form thirteen to fifteen inches high, covered with large double flowers with long curled petals. Choicest mixed varieties. 10

QUEEN OF THE MARKET. Finest mixed; very early 10

VICTORIA. Very large, of perfectly double form.

WHITE. 10

MIXED. 10

CARTER'S WHITE PLUME. One of the most magnificent white asters yet produced; height about 15 inches. 10

JEWEL. A beautiful class obtained from the well-known large flowered Peony Perfection. The flower is densely double, and the petals so symmetrically incurved as to resemble a perfect ball. Mixed colors 10

TRIUMPH. Deep scarlet. A rich, brilliant color. Each plant bears thirty to forty flowers of great beauty; 8 in. 10

HERCULES. Purest white, petals very long, flowers attaining the enormous diameter of six inches. Excellent for pot culture. 25

SEMPLE'S BRANCHING. A superior and free-flowering class. The flowers are large, with graceful, wavy petals on long stems; excellent for cutting; 2 ft.

LAVENDER. 10

PINK. 10

CRIMSON. 10

WHITE. 10

PURPLE. 10

FINEST MIXED. All colors. 10

CHINESE. Common variety; mixed. 5



JEWEL ASTER.



BACHELOR'S BUTTON.

BACHELOR'S

BUTTON.

Per Pkt.

A showy, hardy annual, about two feet high, succeeding well in any soil. Set six inches apart.

FINEST MIXED. 5

EMPEROR WILLIAM. Deep blue. 5

BALSAM.

Most magnificent, popular, half-hardy annuals, from one and one-half to two feet in height. Sow the seeds early in frames, and transplant to a well enriched border one foot apart.

FINE DOUBLE. Mixed. 5

ROSE-FLOWERED. 5

CAMELIA-FLOWERED. Finest mixed. 5



DOUBLE BALSAM.

BARTONIA AUREA.

A showy, half-hardy annual, growing about two feet high, bearing very brilliant yellow flowers. Thin plants to six inches apart. 5

BEANS. (Flowering.)

See list of beans with vegetable seeds.

BELLIS PERENNIS.

(Double Daisy.)

A favorite perennial for the border or for pot culture. Set plants six inches apart.

RED. Double; very fine. 10

SNOWBALL. White; large. 10

FINEST MIXED. Double. 10



A. BLANC

DOUBLE DAISY.



SWAN RIVER DAISY.

BRACHYCOME

IBERIDIFOLIA.

(Swan River Daisy.)

Very pretty, free-flowering, dwarf-growing annual; well adapted to edgings, rustic baskets, or pot culture.

MIXED BLUE AND WHITE. ½ ft. 5

BROWALLIA.

Per Pkt.

Handsome, profuse-blooming annual, covered with beautiful flowers during the summer and autumn months.

ELATA COERULEA. Blue; 1½ ft.....	5
ALBA. White; 1½ ft.....	5
FINE MIXED.....	5



CALENDULA.

CALENDULA.

Free-flowering, hardy annual, growing in any good garden soil, producing a fine effect in beds or mixed borders. 1 to 1½ feet.

METEOR. Double; yellow striped orange.....	5
PRINCE OF ORANGE. Double; dark orange.....	5
FINEST DOUBLE MIXED.....	5



CALCEOLARIA.

CALCEOLARIA.

Indispensable for the greenhouse or the flower garden. They succeed in any light, rich soil. Half-hardy perennials.

CHOICE MIXED VARIETIES.... 25



CANDYTUFT.

CANDYTUFT.

A well-known, hardy annual, very useful for bedding and bouquets, and also for pot culture.

EMPRESS. Large trusses of pure white flowers; very handsome. Used for forcing. Ounce 40c..... 5

LITTLE PRINCE. Large heads of pure white flowers. Plants about six inches high. Ounce 40c..... 5

CRIMSON. Ounce 25c..... 5

PURPLE. Ounce 25c..... 5

WHITE. Ounce 25c..... 5

TALL. Finest mixed. Ounce 25c..... 5

ROCKET. Pure white, long spikes. Ounce 25c..... 5



CANARY BIRD FLOWER.

CANARY BIRD FLOWER.

A rapid-growing, delicate climber, reaching a height of from ten to fifteen feet. Bright yellow, fringed; exceedingly beautiful foliage. Half-hardy annual..... 5

CANNA.

Per Pkt.

Handsome foliage plants, growing from three to eight feet high. Highly ornamental on the lawn. Soak the seed in warm water for about twelve hours. Seeds should be sown early in a strong, moist heat. Half-hardy perennials.

FINEST MIXED..... 5

CANTERBURY BELLS.

A well-known biennial, growing about one foot high, producing beautiful bell-shaped flowers.

DOUBLE BLUE.....	10
DOUBLE WHITE.....	10
DOUBLE MIXED.....	10

CATCHFLY.

A hardy annual, about one foot high; produces brilliant flowers in great profusion in early summer.

RED.....	5
WHITE.....	5
PINK.....	5
MIXED.....	5

CENTAUREA.

Silver-leaved plants, fine for ribbon borders, baskets, etc. Half-hardy perennial.

CANDIDISSIMA. Thick foliage; ¾ ft..... 10

GYMNOCARPA. Graceful white foliage; ¾ ft..... 10

CINERARIA.

Well-known favorite, free-flowering plants for the greenhouse, which may be had in splendid bloom through the greater portion of the year, and from the richness and diversity of the colors are among the most valuable of our early spring flowers; succeed best in light, rich, free and open soil. Greenhouse perennial.

CARTER'S BRILLIANT PRIZE. Choicest varieties..... 25

FINE MIXED VARIETIES..... 25

CHRYSANthemUM.

Handsome, hardy annual, about two feet high, blooming from July to October.

DOUBLE WHITE.....	5
DOUBLE YELLOW.....	5
DOUBLE MIXED.....	5



CLARKIA.

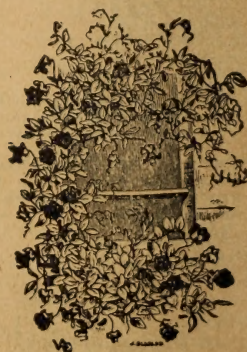
CLARKIA.

A very beautiful hardy annual, about eighteen inches high, blooming from June to September. Set six inches apart.

FINE MIXED. Ounce 30c... 5

COBAEA SCANDENS.

The most useful of climbers, on account of its rapid growth, fine foliage, and large, bell-shaped flowers, purple in color. In sowing place the seeds edgewise and cover lightly. Half-hardy perennial..... 10



COBAEA SCANDENS.

COCKSCOMB.

Very singular and attractive, half-hardy annuals, about two feet high. To perfect the flowers they should be sown in the hot-beds and transplanted into rich soil one foot apart.

MIXED. Double..... 10

COLEUS.

One of the most popular foliage plants. Is very decorative in the flower border, and easily grown from seed, which frequently produces new and distinct varieties. Half-hardy perennial.

NEW HYBRIDS. Mixed..... 15

COLLINSIA.

Beautiful, hardy annual; very pretty when grown in a mass. Thin plants to three inches apart.

MIXED..... 5

COLLOMIA.

A very pretty annual, producing heads of bright flowers.

SCARLET..... 5

COLUMBINE.

A well-known, showy, hardy perennial, about two feet high, blooming in May and June.

MIXED..... 5



MORNING GLORY.

CONVOLVULUS MAJOR.

(Morning Glory.)

A well-known beautiful, climbing annual, suitable for covering arbors, trellises, etc. Blooms from July until autumn.

LEARI. Splendid dark blue..... 10

FINE MIXED. Ounce 10c. 5

JAPANESE. Gigantic flowers, exquisite new colors, magnificent foliage. Finest mixed..... 5

CONVOLVULUS MINOR.

Beautiful and showy, half-hardy annuals, producing an abundance of rich colored flowers. Set plants one foot apart. Blooms from July until autumn.

FINE MIXED..... 5

MAURITANICUS. Beautiful for hanging baskets and vases. Flowers blue..... 5

COREOPSIS.

Showy, hardy annuals about two feet high, succeeding well in any soil. Produces a fine effect when grown in a mass. Blooms from June until September.

FINE MIXED..... 5

DRUMMOND'S. Large yellow..... 5



COREOPSIS.

COSMOS.

Splendid flower for cutting purposes, plants growing five to seven feet high, which are beautiful masses of the most elegant foliage, until they begin to bloom, when each plant will have hundreds of large, showy blossoms. Both foliage and flowers are excellent for cutting. Sow seed early in spring and transplant to the garden in June.



COSMOS.

COSMOS—Continued.

EARLY FLOWERING. Mixed colors..... 10

LADY LENNOX. Tall growing, late variety, with gigantic shell-pink flowers, borne on long stems..... 10

CYPRUS VINE.

One of the most popular of all summer climbers; flowers small, thickly set in a most beautiful dark-green foliage, forming a striking contrast. Tender annuals.

SCARLET..... 5



DAHLIA.

DAHLIA.

Plant in a shallow box or pan early in March or April, transplant carefully and keep the soil moderately moist. When all danger from frost is over set out in the bed or border in the garden.

FINEST MIXED. Single... 10

FINEST MIXED. Double.. 10

DATURA.

White bordered with lilac. Continues in bloom from July until September. A beautiful, half-hardy annual, growing from two to three feet in height and producing very large flowers.

WRIGHTII..... 5

DELPHINIUM FORMOSUM.

A hardy perennial, about two feet high, producing an abundance of exquisite blue and white flowers. Blooms the first season..... 5

DRACOENA.

Beautiful, ornamental-leaved plant, extensively used in vases and for house decoration. Tender perennial.

FINEST MIXED. Splendid varieties..... 10

INDIVISA. Narrow, dark green foliage..... 10

VEITCHI. Beautifully colored leaves..... 10

ESCHSCHOLTZIA. (California Poppy.)

A very showy, hardy annual, about one foot high, blooming from June until September. Produces a brilliant effect; admirable for borders when grown in a mass.

ALBA. White..... 5

CALIFORNICA. Yellow; orange center..... 5

MANDARIN. Orange and scarlet..... 5

FINEST SINGLE MIXED... 5

CARTER'S CARMINE KING. A splendid new variety, of a beautiful carmine-rose color..... 10

MANDARIN. Double; orange and scarlet..... 10



ESCHSCHOLTZIA.

FEVERFEW. (Pyrethrum.)

Handsome, free-flowering, highly ornamental plants, producing a fine effect in the mixed flower and shrubbery borders. Succeeds in any rich soil.

DOUBLE WHITE..... 5

GOLDEN FEATHER. Prized for its yellow foliage..... 5



FORGET-ME-NOT.

FORGET-ME-NOT.

Per Pkt.

A very pretty little half-hardy perennial, about ten inches high. Will thrive best in a cool, moist situation, and is well adapted for bedding, blooming the first year from seed.

VICTORIA. Dwarf, sky blue, of bushy habit. Fine for bordering 5
MIXED 5

FOXGLOVE.

A hardy biennial, growing three to four feet high, and very ornamental in a garden or amongst shrubbery, as it produces tall spikes of bell-shaped flowers.

FINE MIXED 5

FRENCH HONEYSUCKLE.

A fine border plant. Hardy perennial.

WHITE 5
RED 5
MIXED 5

GAILLARDIA.

Showy and universally-admired annual. Very beautiful; fine for bedding and bouquets.

FINE MIXED 5

GOURDS.

A valuable and highly interesting class of climbing plants. Tender annuals.

AFRICAN PIPE. The stem end used in making pipes 5
BOTTLE. Well known and very useful 5
HERCULES CLUB. Club shaped 5
NEW MINIATURE. Orange and green striped; one of the best 5
ORANGE. Very ornamental, fruit resembling an orange 5
POWDER HORN 5
FINE MIXED 5

GLOBE AMARANTH.

A tender annual, about two feet high, very ornamental in the garden. The flowers will retain their beauty for a long time if gathered and dried as soon as they are open. Start early in hot-beds, and transplant one foot apart in the border when the weather becomes warm.

PURPLE 5
WHITE 5
CRIMSON 5
VARIEGATED 5

GLOXINIA.

Greenhouse plants, producing richly colored and brilliant flowers. Perennial.

CARTER'S INVINCIBLE PRIZE. Contains all the best self-colors, crimson, sapphire, purple, ruby, rose, bluish violet and white, together with the most beautiful spotted or marbled kinds 25

GRASSES. (Ornamental.)

The ornamental grasses produce a beautiful and pleasing contrast when interspersed with flowering plants. Most of the varieties may be dried for winter bouquets, or used for filling vases, either in a dried or a green state.

Agrostis Nebulosa.

One of the most graceful grasses in cultivation. Hardy annual; 1½ ft. 5

Avena Sterilis. (Animated Oats.)

Very graceful, with large, drooping spikes on slender stems. Hardy annual; 2 ft. 5

GRASSES—Continued.

Per Pkt.

Briza Maxima. (Quaking Grass.)

A most beautiful variety; one of the best. Hardy annual; 1¼ ft. 5

Briza Gracilis. (Quaking Grass.)

Very delicate and graceful. Hardy annual; 1 ft. 5

Colx Lachrymac. (Job's Tears.)

A well-known variety. Half-hardy annual; 2 ft. 5

Eragrostis Elegans. (Love Grass.)

A favorite variety, graceful habit and very much admired. Hardy annual; 2 ft. 5

Gynerium Argentium. (Pampas Grass.)

The finest ornamental grass in cultivation. Half-hardy perennial; 10 ft. 5

Hordeum Jubatum. (Squirrel Tail Grass.)

Very handsome light purple plumes. Hardy annual; 3 ft. 5

Lagurus Ovatus. (Hare's Tail Grass.)

Small white plumes. Hardy annual; 2 ft. 5

Sectaria Microcheta.

Large, drooping plumes of the most graceful description. Hardy annual; 2 ft. 5

Stipa Pennata. (Feather Grass.)

One of the finest of the ornamental grasses. Hardy perennial; 2 ft. 5

CODETIA.

Very attractive, hardy annual of easy culture, about one foot high, flowering in July and August.

FINE MIXED 5

GREVILLEA ROBUSTA.

A very graceful decorative plant, with evergreen, fern-like foliage. Tender perennial 5

GYPHOPHILIA.

A free-flowering annual that should be in every garden, for it thrives abundantly, furnishing the loveliest material for bouquets.

PANICULATA. (Baby's Breath.) White flowers, fine for bouquets. Hardy perennial; 2 ft. 5

ELEGANS. Hardy annual; pure white 5

HELICHRYSUM. (Eternal Flower.)

A hardy annual, very ornamental in the garden, and very desirable for winter bouquets, as they will retain their form and color for years if gathered and dried when first open.

DOUBLE YELLOW 5

DOUBLE WHITE 5

DOUBLE SCARLET 5

DOUBLE PURPLE 5

DOUBLE FINE MIXED 5



HELIOTROPE.

HELIOTROPE.

A well-known, half-hardy perennial, particularly prized on account of its delightful fragrance. It is well adapted for bedding or pot culture. Sow the seeds early in spring, in pots or in the hothouse, and transplant into the garden when the weather becomes warm.

LOUISE DELUAX. Rose-tinted flowers. 10

MAD. DE BLONAY. White; for bouquets 10

FINEST MIXED. Dark varieties. 10



HOLLYHOCK.

HOLLYHOCK.

Per Pkt.

Showy perennials, four to six feet high; very effective amongst shrubbery.

DOUBLE WHITE. Flowers pure white, perfectly double	10
EXTRA CHOICE DOUBLE FINEST MIXED	10
FINE MIXED. Double....	5
SINGLE. Finest mixed....	10

HONESTY.

A hardy biennial, two feet high, flowering the second year in May and June. The flowers are succeeded by singular semi-transparent seed vessels that are quite ornamental and may be kept for a long time

5

HUMULUS JAPONICUS. (Hop.)

An extremely rapid-growing climber, with handsome, variegated foliage. Hardy annual; 20 ft.

5

HYACINTH BEAN.

Tender, climbing annual, producing clusters of blue and white flowers; 10 ft.

5

ICE PLANT.

A singular-looking, tender annual, with thick, fleshy leaves that have the appearance of being covered with crystals of ice. Start early in pots and transplant into light, sandy soil, in a warm situation

5

JACOBEE.

A very gay-colored, showy class of hardy annuals, very effective for bedding. Grows about one foot high.

DOUBLE FINEST MIXED	5
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KOCHIA TRICHOPHYLLA. (Glowing Ball.)

This ornamental annual plant grows quickly from seed sown in the open ground, when the trees are coming out in leaf, and the plants are always of a rounded or globe-like form. The stems are clothed with slender, light green leaves. Early in the fall the ends of the shoots are set thickly with small, bright scarlet flowers, the bushy plants resembling balls of fire. The plants are equally showy planted singly to show the round ball-like form on all sides or grown in continuous rows

5

LANTANA.

Highly valuable plants of vigorous growth and branching habit, producing brilliantly-colored flowers constantly changing in hue. Very effective, either for pot culture or for bedding.

FINE MIXED	5
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LARKSPUR.

Very beautiful, showy annuals, producing dense spikes of flowers, which are very decorative, either in the garden or when cut for vases. Set ten inches apart.

DWARF DOUBLE ROCKET. Finest mixed	5
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DOUBLE BRANCHING. Fine mixed	5
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LAVENDER.

A shrubby plant, half-hardy. Delightful fragrance.....

5

LINUM. (Flowering Flax.)

Per Pkt.

GRANDIFLORUM RUBRUM. Brilliant, dark scarlet. Hardy annual	5
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LOBELIA.

Most excellent and useful plants, free-flowering and of easy culture. Fine for borders, baskets, vases and window boxes.

GRACILIS. Fine for hanging baskets, vases, etc.; light blue; trailing	5
CRYSTAL PALACE. Compact; dark blue; excellent for edging	5
WHITE GEM. The best white variety for edging	5
CARDINALIS. Long spikes, bright scarlet flowers. Hardy perennial	10



LOPHOSPERMUM.

LOPHOSPERMUM.

One of the most beautiful climbing annuals. Graceful flowers of large size, resembling foxgloves in shape, and of a rich rose color. The foliage is of velvety texture.

SCANDENS. Rose	10
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LOVE-LIES-BLEEDING.

A hardy annual, three to four feet high, with pendant spikes of blood-red flowers

5

LOVE-IN-A-MIST.

A curious, hardy annual about one foot high, with finely cut leaves and singular flowers.

MIXED	5
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LUPINS.

Showy, hardy perennials, two to three feet high, producing tall spikes of attractive flowers.

FINE MIXED	5
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MALOPE.

Handsome, half-hardy annual, about two feet high. Set eighteen inches apart. Well adapted to mixed borders.

FINE MIXED	5
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MARVEL OF PERU.

The old and well-known four o'clock. A beautiful plant, with flowers of various colors, making a fine summer hedge when set one foot apart. Grows two feet high.

FINE MIXED	5
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MARIGOLD.

Extremely showy, half-hardy annual, one to two feet high, well adapted to garden culture, blooming profusely through the season. Set one foot apart.

AFRICAN. Double mixed....	5
FRENCH. Double mixed; all colors	5
NANA PULCHRA. Very dwarf, double, striped.....	5
ORANGE. Double.....	5



MARIGOLD.

MAURANDIA.

Per Pkt.

An elegant, half-hardy, climbing perennial, well adapted to the conservatory or trellis work in the garden. Start early in pots, transplant when the weather becomes warm. Flowers the first year from the seed, and continues in bloom through the season.

BARCLAYANA. Rich violet flowers.....	10
SCARLET.....	10
PURPLE.....	10
WHITE.....	10
FINE MIXED.....	10

MORNING GLORY. (See *Convolvulus*.)**MOURNING BRIDE.**

A class of very pretty, hardy annuals, from one to two feet high, suitable for bedding or bouquets.

PURPLE.....	5
RED.....	5
WHITE.....	5
FINEST MIXED.....	5

MIGNONETTE.

A well-known, hardy annual, universally grown and esteemed for its delicious fragrance. If well thinned out, the plants will grow stronger and produce larger spikes of bloom.

Mignonette, Sweet.

Large-flowered variety, very fragrant. Per ounce, 15c.....

Dwarf, Compact.

A very desirable variety, distinct in character, forming a dwarf, dense bush.....

Large Flowered, Pyramidal.

Greatly superior to the old variety of pyramidal growth and much larger flowers.....



MIGNONETTE.

Machet.

The finest variety for pot culture; sweet-scented, red flowers.....

White Pearl.

Flowers nearly white; a desirable variety.....

Gabriele.

A variety of dwarf pyramidal growth with large spikes of reddish flowers; fine for pots, or in the open ground.....

Allen's Defiance.

Spikes of immense size; deliciously fragrant.....

MIMULUS.

Handsome, profuse-blooming plants, with flowers of singular form and brilliant colors, fine for greenhouse or shady situations. Half-hardy perennials, blooming from seed the first year.

FINE MIXED.....

MUSK PLANT.

Much esteemed for the strong musk odor of its leaves. It has a yellow bloom.....

NEMOPHILA.

Charming hardy, low annual, producing an abundance of extremely delicate and beautiful flowers. Very useful for bedding or for pot culture. Sow early in pots and transplant into a cool, rather moist, location.

INSIGNIS. Clear, bright blue, white center.....

FINEST MIXED.....

NICOTIANA.

Deliciously fragrant flowers, very ornamental, of easy cultivation, excellent for cutting. Half-hardy annuals.

AFFINIS. White, very fragrant.....

SYLVESTRIS. Plants of pyramidal growth, about four feet high. Flowers, pure white and very fragrant.....



NICOTIANA SANDERÆ.

Per Pkt.

SANDERÆ. Branching habit; 2 ft. Strikingly beautiful plants. Blossoms brilliant carmine-red; delicious fragrance.....

NIEREMBERGIA GRACILIS.

Profuse-blooming little plants, with white, lilac-shaped flowers; exceedingly valuable for small beds, edging and rustic baskets or vases. Half-hardy perennials.....

NOLANA.

Very pretty trailing, hardy annuals; fine for rockwork, hanging baskets or for bedding. Select light, rich soil.

FINE MIXED.....

**NASTURTIUM.**

One of the most popular flowers of the present time, and constantly growing in favor. Is a rapid climber, of easiest culture, bearing beautifully colored flowers in profusion until killed by frost. Hardy annual.

The "K. & W." Mixed Varieties, both Tall and Dwarf, cannot be surpassed for brilliancy and variety of color. The plants, for about three months in the year, produce a lavish profusion of bloom, even through the hottest weather, and a trial of them is sure to give great satisfaction.

NASTURTIUM—Continued.**NASTURTIUM. (Tall.)**

	Per Pkt.
COCCINEUM. Scarlet.....	5
DUNNETT'S ORANGE. Pure orange.....	5
EDUARD OTTO. Brownish lilac.....	5
HEINEMANNI. Chocolate color.....	5
PEARL. Creamy white.....	5
PRINCE HENRY. Cream, spotted and tipped scarlet.....	5
REGELIANUM. Purplish violet.....	5
SHELLINGHI. Yellow spotted.....	5
SCHUCRIANUM. Straw colored, spotted brown.....	5
VESUVIUS. Salmony-rose; an exquisite shade.....	5
VON MOLTKE. Dark rose.....	5
CRIMSON.....	5
SCARLET.....	5
YELLOW.....	5

"K. & W." Mixed Varieties.

1 lb.	½ lb.	¼ lb.	2 oz.	1 oz.	
\$1.00	.60	.35	.20	.10	5
COLLECTION OF 6 PKTS.,					25

NASTURTIUM LOBBIANUM.

This class is remarkable for the intensely brilliant colors of its flowers, blooming most profusely, and is very useful for covering verandas, or for trellis and rustic work. Half-hardy annual.

MADAME GUNTER HYBRIDS. A French strain, noted for its fine colors.....	5
MARGUERITE. Pale yellow, flushed blood red.....	5
FINE MIXED.....	5

NASTURTIUM. (Dwarf.)

The dwarf improved varieties of nasturtium are among the most useful and beautiful of garden favorites for bedding, massing or ribboning. Hardy annuals.

BRONZE. Bronzy-orange.....	5
CLOTH OF GOLD. Scarlet flowers and yellow foliage.....	5
CRYSTAL PALACE GEM. Sulphur, maroon blotches.....	5
EMPRESS OF INDIA. Fiery crimson, dark foliage.....	5
GOLDEN KING. Rich, golden yellow.....	5
KING THEODORE. Deep crimson maroon, dark foliage.....	5
KING OF TOM THUMBS. Dark scarlet, dark leaves.....	5
LADY BIRD. Orange-yellow; suffused with red and a bright red blotch at the base of the petals.....	5
RUBY KING. Rich crimson rose.....	5
SPOTTED. Golden yellow, spotted garnet.....	5
CRIMSON.....	5
SCARLET.....	5
YELLOW.....	5

"K. & W." Mixed Varieties.

1 lb.	½ lb.	¼ lb.	2 oz.	1 oz.	
\$1.00	.60	.35	.20	.10	5
COLLECTION OF 6 PKTS.,					25

OXALIS.

Elegant flowering plants, particularly adapted for the greenhouse or parlor, where they bloom in mid-winter.

FINE MIXED VARIETIES.....	10
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OENOTHERA. (Evening Primrose.)

A half-hardy annual and perennial, at out six inches high, bearing bright, showy flowers in white, pale yellow, rose, etc. Of the easiest culture.

MIXED ANNUAL SORTS.....	5
MIXED PERENNIAL SORTS.....	5

**SWEET PEAS.**

Sweet peas are among the most desirable hardy annuals grown, being exceedingly beautiful and highly ornamental, and will grow and blossom well in any good garden soil. Select an open, sunny location, and sow as early as the ground can be worked in the spring, to enable the vines to get a good strong growth before the warm weather comes.

SPENCER VARIETIES.

The Waved or Spencer class represents a type of sweet pea the original of which, the Countess Spencer, is still the best and most popular pink. The advent of this variety and the development from it of numerous new varieties only covers a short period, and the chief interest of sweet pea experts is centered on this class. They are strong growers, bear long stems and very large blossoms, with usually four blossoms to a stem. The standard is large, round, and fluted or wavy on the edges. The wings, too, are large and more or less wavy, but not so much so as the standard.

	Pkt.	Oz.
APPLE BLOSSOM. Crimson, buff and light pink.....	10	20
ARTHUR GREEN. Standard bronze maroon; wings maroon, shading to deep violet.....	10	20
ASTA OHN. Pinkish lavender.....	10	20
AURORA. White, striped with orange-pink.....	10	20
BEATRICE. Rose, pink and buff.....	10	20
BLANCHE FERRY. Crimson pink and light pink....	10	20
COUNTESS SPENCER. Pure, soft rosy pink.....	10	20
DAINTY. White, with pink edge.....	10	20
EVELYN HEMUS. Buff and primrose, with clear rose margin.....	10	20
KING EDWARD. Pure red.....	10	20

SWEET PEAS—Continued.

	Pkt.	Oz.
LOVELY. Deep pink, shading to blush	10	20
MASTERPIECE. Lavender; very beautiful.....	10	20
MAUD HOLMES. Rich crimson.....	10	20
MRS. C. W. BREADMORE. Primrose, with rose edge.....	10	20
OTHELLO. Deep maroon	10	20
PARADISE IVORY. Ivory white.....	10	20
QUEEN VICTORIA. Primrose.....	10	20
SENATOR. Chocolate, purple and white striped.....	10	20
TENNANT. Beautiful purple mauve.....	10	20
WHITE SPENCER. Large, pure white.....	10	20
ZEPHYR. Silvery blue; very handsome.....	10	20

GRANDIFLORA TYPE.

ADMIRATION. Brilliant red and white striped	5	10
AMERICA. Crimson scarlet, irregularly striped.....	5	10
APPLE BLOSSOM. Rosy pink, blending with white.....	5	10
AURORA. Orange, rose and white striped	5	10
BLACK KNIGHT. Deep maroon	5	10
BLUSHING BEAUTY. Very beautiful flesh pink.....	5	10
BLANCHE BURPEE. Pure white	5	10
BLANCHE FERRY. Extra early; standards carmine pink, wings almost pure white.....	5	10
BURPEE'S EARLIEST WHITE. Extremely early; clear white.....	5	10
CAPTAIN OF THE BLUES. Blue and purple	5	10
CAPTIVATION. A beautiful light claret	5	10
COCCINEA. Cherry red	5	10
COQUETTE. Primrose and very light purple.....	5	10
COUNTESS OF CADOGAN. Lilac and blue.....	5	10
COUNTESS OF LATHOM. Delicate cream pink.....	5	10
COUNTESS OF RADNOR. Pale lavender, lovely flower.....	5	10
DAINTY. Crystal white, with pink edge.....	5	10
DOROTHY ECKFORD. Large white.....	5	10
DOROTHY TENNANT. Rose purple	5	10
DUKE OF CLARENCE. A brilliant, dark claret	5	10
DUKE OF SUTHERLAND. Dark purple and violet.....	5	10
DUKE OF WESTMINSTER. Deep purple.....	5	10
EARLIEST OF ALL. Rose and white; fine for forcing	5	10
EMILY ECKFORD. Rose-lilac and blue.....	5	10
EMILY HENDERSON. Large white.....	5	10
FASCINATION. Tints of blue and lilac	5	10
FIREFLY. Bright red	5	10
GEORGE GORDON. Reddish maroon.....	5	10
GLADYS UNWIN. Large light pink	5	10
GOLDEN ROSE. Light primrose and rosy pink.....	5	10
GORGEOUS. Scarlet, orange and rose.....	5	10
GRAY FRIAR. Purple shadings on white ground.....	5	10
HELEN PIERCE. Blue mottled on white.....	5	10
HENRY ECKFORD. Large flowering; orange scarlet	5	10
HON. F. BOUVERIE. Deep pink, shading to light pink	5	10
HON. MRS. E. KENYON. Large primrose yellow.....	5	10
JANET SCOTT. Soft rosy pink and buff	5	10
KATHERINE TRACY. Brilliant pink; large flowering	5	10
KING EDWARD VII. Bright red.....	5	10
LADY GRISEL HAMILTON. Pale lavender.....	5	10
LADY MARY CURRIE. Salmon-pink and carmine.....	5	10
LADY NINA BALFOUR. Mauve and lavender.....	5	10
LADY PENZANCE. Delicate rose	5	10
LORD ROSEBERRY. Magenta rose	5	10
LOTTIE ECKFORD. White, blended with blue lilac.....	5	10
LOTTIE HUTCHINS. Light pink and primrose, striped	5	10
LOVELY. Deep pink, shading to light pink	5	10
MAJESTIC. Deep rose crimson	5	10
MARS. Bright fiery crimson	5	10
MIDNIGHT. Indigo blue and violet; very dark.....	5	10
MISS WILLMOTT. Large orange pink.....	5	10
MODESTY. White with pink edge.....	5	10
MONARCH. Bronze crimson and blue.....	5	10
MONT. BLANC. Early white; fine for forcing.....	5	10
MRS. DUGDALE. Crimson rose	5	10
MRS. ECKFORD. White, shaded with primrose.....	5	10
NAVY BLUE. Indigo blue and violet.....	5	10
ORIENTAL. Cream, heavily veined with salmon.....	5	10
OTHELLO. Dark, glossy maroon	5	10
PAINTED LADY. Rosy crimson and blush white	5	10

SWEET PEAS—Continued.

	Pkt.	Oz.
PHYLLIS UNWIN. Bright pink.....	5	10
PRIMA DONNA. Lovely shade of soft pink.....	5	10
PRINCE EDWARD OF YORK. Scarlet and crimson.....	5	10
PRINCE OF WALES. Bright rose and crimson.....	5	10
QUEEN ALEXANDRA. Scarlet.....	5	10
QUEEN VICTORIA. Soft primrose yellow.....	5	10
RAMONA. Cream white, splashed with pale pink.....	5	10
ROYAL ROSE. Crimson pink, shaded light pink.....	5	10
SADIE BURPEE. Pure pearly white	5	10
SALOPIAN. Deep crimson and orange scarlet.....	5	10
SENSATION. Rosy cream, with white wings	5	10
SHAZADA. Dark maroon and violet.....	5	10
STELLA MORSE. Deep cream, with blush-pink edge.....	5	10
STANLEY. Deep maroon	5	10
SYBIL ECKFORD. Buff and pink	5	10
VENUS. Salmon-buff and rosy pink	5	10

"K. & W." CHOICE MIXED. This splendid assortment is a mixture of the finest varieties produced, the flowers being of the largest sorts, and so combined as to give the most delightful harmony of colors.

PRICES FOR ANY OF THE ABOVE FIVE-CENT PACKAGES: 6 pkts. for 25c.; 12 pkts. for 40c.; collection of 75 pkts. \$2.25.

NEW BUSH SWEET PEAS. Grow in perfect bush form, sixteen to eighteen inches high, producing flowers of large size.....

EVERLASTING SWEET PEAS.

FINE MIXED..... 5 10

Full flowering season is greatly extended by inoculating Sweet Peas with Farmogerm. See page 42.

**PANSY.**

Per Pkt.

A well-known and universal favorite. Prefers a moist, shady situation; cover during the winter months. Seeds sown in August or September, kept in a cold frame through the winter and planted out in the spring, will blossom the whole season. Hardy perennial.

CARTER'S PRIZE. Extra choice strain; very large flowers and choice colors..... 15

GIANT FIVE-SPOTTED. Enormous flowers of perfect symmetry; beautifully blotched with the richest deep velvety plum-crimson, bordered with white and various colors.... 15

PANSY—Continued.

Per Pkt.

CARTER'S PEACOCK. Unique flowers of marvelous beauty, the upper petals being of a beautiful ultra-marine blue, resembling in shade the peacock feather	10
GIANT STRIPED. The perfection of all the striped varieties	15
BUGNOT. A French variety, of large size, beautiful colors, handsome broad blotches, finely penciled with stripes of delicate hue	15
KING OF THE BLACKS. Velvety jet black	10
ODIER. Finest blotched	10
BLUE. Beautiful light blue	10
YELLOW. Pure golden yellow	10
PURPLE. Dark, rich purple	10
WHITE. Pure white; dark eye	10
"K. & W." EXTRA CHOICE MIXED. Superb mixture of finest large flowered varieties	10
FINE MIXED	5

PASSION FLOWER.

A splendid class of climbers, with curious flowers produced in great profusion; fine for conservatory or will answer for the garden, flowering freely during the autumn.

FINE MIXED	10
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PERILLA NANKINENSIS.

An annual, growing from two to two and one-half feet; stems branching, well covered with an ample foliage of a dark purple, almost black.

	5
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PETUNIA.

PETUNIA.

Favorite, hardy annuals, succeeding well in any rich soil. For the brilliancy and variety of their colors, their abundance of flowers and the long duration of their blooming period, they are indispensable in any garden.

DOUBLE FRINGED. Extremely double, edges finely fringed, petals fluted and crinkled, unmatched by crumpled velvet, which the flowers resemble. 25

SINGLE FRINGED. Choicest fringed sorts

CALIFORNIA GIANTS. A strain of incomparable beauty, size and luxuriance. The flowers are exquisitely ruffled or fringed on the edges, and are enormous. 25

CARTER'S EMPRESS. Crimson shaped, with lovely penciled throat. Blossoms of grand size and form

CLEMATIS FLOWERED. Resembling in form the well-known Clematis Jackmanni; dark and light blue. 15

WHITE. Single, large, pure white

FINE MIXED. Single varieties

PHLOX DRUMMONDI.

The flowers are of extreme beauty, and are greatly admired by all. Their long duration in bloom, combined with their almost unequalled richness of color, make them invaluable in the general flower garden. Hardy annuals.

PURE WHITE	5
PURE DEEP SCARLET	5
ROSE	5
YELLOW	5
CRIMSON	5
FINEST MIXED. Ounce \$1.00	5

HARDY PERENNIAL. Fine mixed varieties



PHLOX.

PINK. (Dianthus.)

Per Pkt.



HEDDEWIGI PINK.

One of the most popular flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom.

CARNATION. A magnificent class of popular flowers, very fragrant, and of rich and beautiful colors. Hardy perennial. 10

HEDDEWIGI. Flowers very large, and of rich and brilliant color. Hardy annual. 10

CHINESE. Splendid double mixed

CARNATION "MARGUERITE." Very early, and when sown in the spring will bloom in July or August and continue until frost, or may be potted to bloom during the winter in the house. Many of the flowers are double, and are finely fringed and fragrant.

WHITE. Large, perfect flowers

YELLOW. Clear, soft yellow

GIANT MIXED. Extra large, flowering profusely, in brightest colors

POLYANTHUS.

Showy and profuse-flowering, hardy perennial, about one foot high, blooming in June and July.

FINEST MIXED

POPPY.

ADMIRAL POPPY.

Brilliant and showy, hardy annual, growing freely in any garden soil. 2 ft.

ADMIRAL. Single, peony-flowered variety. Glistening pure white, with scarlet band around the top; very handsome. 10

CARDINAL. Dark foliage, deeply cut; very double flowers. Color vivid scarlet on white ground. 5

ICELAND. The colors range from pure white and yellow to the deepest orange-scarlet. Hardy perennial, blooming the first year from seed

MIKADO. Double white, fringed flowers, purple margins. 5

ORIENTALE. Deep crimson flowers with black blotch; 3 ft. 10

PEACOCK. Cup-shaped, crimson blossoms, with ring of black at the base of the petals; equally good for pots or borders 10

POPPY—Continued.

Per Pkt.



SHIRLEY POPPY.

- SHIRLEY. Beautiful strain of single mixed poppies; bright, delicate colors; fine for cutting. 5
- TULIP. Grows twelve to fourteen inches high, and produces well above the foliage fifty to sixty large flowers of the most brilliant scarlet. 5
- WHITE SWAN. The acme of perfection in double poppies. The profusely produced blossoms are perfectly formed, and the purity of their color is beyond reproach. 10
- DOUBLE SCARLET. 5
- FINE DOUBLE MIXED. 5



PORTULACA.

Very popular, low-growing, hardy annuals, making a most brilliant display in the garden, and very suitable for borders or edgings. Sow early in warm, light, rich soil and thin plants to four inches.

- SINGLE CRIMSON. 5
- SINGLE SCARLET. 5
- SINGLE WHITE. 5
- SINGLE YELLOW. 5
- SINGLE, ALL COLORS MIXED. 5
- DOUBLE FINEST MIXED. 10

PRIMULA. (Chinese Primrose.)

These are beautiful and desirable plants for the parlor and greenhouse, and produce a constant succession of their charming flowers all through the winter and spring. The seeds may be sown at any time from January to July, in pots, using a light soil.

- SINENSIS. White fringed. 25
- SINENSIS. Crimson. 25
- EXTRA FINE MIXED. 25
- DOUBLE EXTRA MIXED. 50

PRINCE'S FEATHER.

Per Pkt.

Ornamental plants, with elegant plumes of rich colored flowers.

- LARGE FLOWERED. Crimson; 2 ft. 5

RHODANTHE.

A well-known everlasting; valuable for the decoration of the conservatory and flower garden; fine for bedding or ribboning. The flowers, if gathered when young, make valuable winter bouquets; succeed best in a light, rich soil and a warm, sheltered situation. Half-hardy annual; 1½ feet.

- FINE MIXED. 5



RHODANTHE.

RICINUS.

(Castor Bean.)

Plants with very ornamental foliage and showy fruit and quite a tropical appearance. With other ornamental-leaved plants, they make a most attractive bed on the lawn, and are also desirable when grown as single specimens. Half-hardy annuals.



RICINUS.

BARBONENSIS ARBOREUS. Beautiful, large green foliage; 15 ft.

CAMBODGENSIS. Dark foliage; black stem; 9 ft. 5

- SANGUINEUS. Scarlet fruited; 10 ft. 5
- ZANZIBARIENSIS. Immense, dark green foliage; 12 ft. 5
- MIXED VARIETIES. 5

ROSE CAMPION.

The rose campion is perfectly hardy and very easily raised from seed. The flowers are produced on long stems, blooming freely throughout the season. Hardy perennials.

- FINE MIXED. 5

RUDBECKIA. (Cone Flower.)

Showy, hardy perennial, suitable for borders or clumps among shrubs.

- AMPLEXICAULIS. Golden yellow; 3 ft. 5

SALPIGLOSSIS.

Very beautiful, rich, half-hardy annuals, one and one-half feet high. Start early in the hot-bed and transplant to light, warm, rich soil. Blooms from July to September.

- FINE MIXED. 10



SALPIGLOSSIS.



SALVIA.

Per Pkt.
SALVIA.

Very ornamental, producing tall spikes of brilliant flowers. Start early in hot-beds and transplant two feet apart. Half-hardy annual.

SPLENDENS. Early brilliant scarlet flowers 10

GLORY OF STUTTGART. Brilliant scarlet, large bouquet 10

BONFIRE. Dwarf scarlet. 10

PATENS. Bright blue... 10

SCHIZANTHUS.

Tender annual, one to one and one-half feet high, blooming from August to October. Fine for pot culture.

FINE MIXED 5

SENSITIVE PLANT.

A pretty, curious annual, being so sensitive that the leaves close together at the slightest touch 5

SMILAX.

A beautiful winter climbing plant, adapted to the conservatory. Nothing can excel this plant in beauty of foliage and orange fragrance of the flower. Extensively used for bouquets and floral decorations of every description 5

STOCKS.

STOCKS.

Half-hardy annual, producing splendid spikes of very rich and beautiful flowers of delightful fragrance. For early flowering sow early in the spring, in pots or in the hot-bed, and transplant one foot apart. Blooms from June until October.

PRINCESS ALICE (White Perpetual). "Cut and Come Again." Off fine branching habit, growing to the height of 18 inches. Large, double flowers, of rosette-like form. Fine for forcing 10

"CUT AND COME AGAIN." Finest mixed 10

BEAUTY OF NICE. Handsome winter flowering stock of quick growth, with flowers of large size and very double. Color, daybreak pink. Flowers in from twelve to fifteen weeks from seed-sowing 10

QUEEN ALEXANDRA. Same type as Beauty of Nice; flowers delicate rosy lilac, of great beauty, and of exceptionally high value for cut bloom, market and bouquet work. The percentage of double flowering plants is very large 10

SNOWFLAKE A dwarf variety, with large, double, snow-white flowers; fine for pot culture; very early 10

WHITE. Ten weeks, double 10

PURPLE. Ten weeks, double 10

SCARLET. Ten weeks, double 10

MIXED. Ten weeks, double 10

SUNFLOWER.

Per Pkt.

Well-known, showy plants; remarkable for their rapid and stately growth and the large size and brilliancy of their flowers.

CALIFORNIA. Double, bright yellow flowers 5

MAMMOTH RUSSIAN. Very large flowers 5

MINIATURE. Covered with hundreds of brightest orange, small, single flowers; of pyramidal growth, with bright, neat foliage 5

SPHENOGYNE.

A very showy, free-blooming plant, with yellow flowers. Very effective for beds or mixed borders. Hardy annual 5

SWEET ROCKET.

Fine early spring flowering plant, very fragrant, growing in any soil. About eighteen inches in height.

FINE MIXED 5

SWEET SULTAN.

Showy, hardy annual, one or two feet high, succeeding well in any soil.

FINE MIXED 5



SWEET WILLIAM.

SWEET WILLIAM.

A well-known, showy and beautiful hardy perennial, about one foot high, making a most splendid appearance in May and June.

HUNT'S PERFECTION. Mixed variety, large, bright-colored flowers. 5

SWEET CLOVER.

A half-hardy perennial, much resembling the common red clover, and valuable for its fragrance 5

TASSEL FLOWER.

A beautiful, half-hardy annual, with small, tassel-like flowers, blooming profusely from July to October.

SCARLET 5

THUNBERGIA.

Very ornamental, trailing, half-hardy annual, admirably adapted for trellis or rustic work, or for the conservatory.

FINE MIXED 10

VERBENA.

Well-known and universally popular bedding plant, blooming all summer. Plants grown from seed are more healthy and make larger and harder plants than those from cuttings. If sown in spring will flower quite early. Half-hardy perennial.

CANDIDISSIMA. Pure white 10

SCARLET DEFIANCE. Brightest scarlet 10

MAMMOTH FINEST MIXED 10

FINE MIXED 5

LEMON VERBENA. Lemon-scented foliage 10



VERBENA.

VIOLA ODORATA. (Sweet Violet.)

Per Pkt.

A charming little perennial, highly prized on account of its delicious fragrance. Succeeds best in a sheltered location

10

VISCARIA.

Very pretty, profuse-flowering, half-hardy annual, producing a fine effect in beds or mixed borders, and growing readily in any soil.

FINE MIXED

5

WALLFLOWER.

Very fragrant and ornamental, half-hardy perennial, suitable for background and amongst shrubbery.

FINE MIXED

5

WHITLAVIA.

Charming, hardy annual, with delicate foliage and clusters of beautiful bell-shaped flowers; fine for ribboning or mixed borders; 1 ft.

FINE MIXED

5

WILD CUCUMBER VINE.

A very rapid-growing climber, which reaches a height of 20 feet in one season. It is covered with clusters of white, sweet-scented flowers, followed by an abundance of ornamental prickly seed pods. It will quickly cover a trellis, pillar, or an unsightly building, and will reproduce itself from self-sown seed every year. Soak seed over night in warm water. Hardy annual

5

ZEA. (Japanese Maize.)

Per Pkt.

An ornamental foliage plant. Grows to the height of four or five feet, furnished from the bottom with long, wavy leaves, broadly ribboned with alternate stripes of white and green.

STRIPED

5

ZINNIA.

A most splendid class of hardy annuals, and one of the finest summer flowering plants. The flowers are large, handsome and in a very great variety of colors, blooming throughout the whole season. Start early in pots or under glass and transplant one foot apart.

HAAGEANA. Double, orange; 1 ft.

5

NEW ZEBRA. Double, dwarf; finest mixed

10

ELEGANS. Single; fine mixed

5

DOUBLE GIANT MIXED

5



DOUBLE ZINNIA.

WILD GARDEN SEED.

A mixture of over one hundred varieties of flower seeds

5

SPECIAL \$1.00 OFFER

..CONSISTING OF..

35-5c. Pkts., or 18-10c. Pkts.

The above may be selected by the purchaser from any varieties found in our catalogue, and will be sent free by mail, on receipt of price.

SPRING BLOOMING DUTCH BULBS.

FOR FALL PLANTING.

To the lover of flowers there are few prized as those which are produced from bulbs. The reason is easily found. Within the bulbs are stored all the future glory of leaves and flowers, only requiring the simplest culture to develop them in their highest perfection, and with no other material can be secured such a wealth of charming flowers of infinite variety of form and coloring, with so little trouble and at so small an outlay. Our sources of supply are the best, the leading growers having for years supplied us with their choicest stock, and we solicit your patronage. Special prices to florists, and those ordering large quantities.

BULB CATALOGUE ISSUED IN SEPTEMBER.



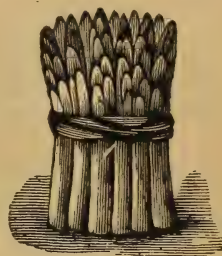
A GENERAL LIST OF VEGETABLE SEEDS

We forward seeds by **Mail, Express or Freight** as the purchaser may wish. When ordered by mail, add postage for corn, beans and peas at the rate of fifteen cents per quart to Catalogue prices, and for larger shipments by mail, see Parcels Post rates on page 3 of this Catalogue. (Eight cents per pound. Maximum shipment, eleven pounds.)

ASPARAGUS.

Sow early in May, thinly, in rows one inch deep and two feet apart. The next season plant in drills two inches deep and two feet apart, spreading the roots well out in ground thoroughly manured and trenched, at least two feet deep.

	Pkt.	Oz.	1 lb.	Lb.
Palmetto. Early, prolific and uniformly of large growth.....	.05	.10	.15	.50
Conover's Colossal. A well-known standard variety.....	.05	.10	.15	.40
Conover's Colossal Roots. Two years old, per 100, \$1.50.				



ENGLISH BEANS.

Plant as early in the spring as the ground can be worked, from two to four inches apart, in drills from twenty-four to thirty inches apart. As soon as the plants are in full blossom, and the lower pods begin to set, pinch off the tops; this will insure the filling of the pods and hasten the maturity of the seed.

Beans ordered by mail are subject to an extra charge of fifteen cents per quart for postage. Pints furnished at quart rates. For larger shipments by mail, see Parcels Post rates on page 3 of this Catalogue. (Eight cents per pound. Maximum shipment, eleven pounds.)

	Pkt.	Qt.	Pk.
Broad Windsor. The best sort; very hardy.....	.10	.30	\$1.75

BEANS—Dwarf or Bush.

A succession of sowings can be made from the first week in May until August. Plant in drills about two inches deep, and from eighteen inches to two feet apart, according to the richness of the soil; the poorer the soil the closer they can be planted; the plants should be about three inches apart.

One quart is sufficient for one hundred feet of drill; one and one-half bushels for one acre in drills.

Beans ordered by mail are subject to an extra charge of fifteen cents per quart for postage. Pints furnished at quart rates. For larger shipments by mail, see Parcels Post rates on page 3 of this Catalogue. (Eight cents per pound. Maximum shipment, eleven pounds.)

	Qt.	Pk.	Bu.
Burpee's Bush Lima. The only bush form of the true large Lima bean. The bushes grow eighteen to twenty inches high. Is an immense yielder of handsome, large pods, well filled with very large beans, which are identical in size and luscious flavor to the well-known large pole Lima.....	.30	\$1.85	\$6.75
Burpee's Stringless Green Pod. Very early. Pods four and a half to five and a half inches long, nearly round, slightly curved, light green in color, flesh tender and of the best quality.....	.25	1.50	5.25
Low's Champion. Early, hardy, thrifty and enormously productive; combines extreme tenderness and delicious flavor, being absolutely without strings to the pods, and excels many other varieties as a snap or string bean. As a shell bean it has but few equals, and is of splendid flavor when cooked dry.....	.20	1.35	4.75
Early Long Yellow Six Weeks. Hardy and prolific.....	.20	1.35	4.75
Early Valentine. Round pods, early, good flavor.....	.25	1.50	5.00
Early Mohawk. Very productive and of good quality.....	.25	1.50	5.00
Dwarf Horticultural. A fine early shell bean.....	.25	1.50	5.00
Milliken's Wax. An extra early variety. The bushes grow from twelve to sixteen inches high, producing golden yellow pods that are entirely stringless and very productive....	.25	1.50	5.25
Wardwell's Kidney Wax. Hardy and vigorous vine, producing a heavy crop of handsome yellow pods, stringless and brittle. Beans large, kidney shaped.....	.25	1.50	5.25
Early Golden-Eyed Wax. Hardy and prolific, with flat, yellow pods.....	.25	1.50	5.00

BEANS—Continued.

	Qt.	Pk.	Bu.
Michigan White Wax. Pods and seeds white and of rich flavor.....	.25	\$1.60	\$5.50
Golden Wax. Very early; round, golden pods.....	.25	1.60	5.50
Black Wax. Pods yellow; a superior snap bean.....	.25	1.50	5.00
Currie's Rust-Proof Wax. Pods long, flat, tender and of fine quality.....	.25	1.50	5.00
Snowflake Pea. A decided improvement on the common pea bean. Productive and very early.....	.20	1.10	3.75
Sulphur Pea. Larger than the white pea bean; golden yellow color; early and of fine quality.....	.20	1.25	4.00
Yellow Eye. Very prolific; fine for baking.....	.15	1.00	3.50
Red Kidney. Excellent as a shell bean and for baking...	.20	1.25	4.50

BEANS—Pole or Running.

The planting of the various sorts of pole beans should be delayed a week or more after the first planting of the early dwarf sorts. They succeed best in sandy loam, which should be liberally enriched with short manure in the hills, which are formed, according to the variety, from three to four feet apart; from five to six seeds are planted in each hill, about two inches deep.

One quart will plant one hundred and fifty hills; ten to twelve quarts to the acre.

KING HORTICULTURAL.

An early, robust grower, the pods being large, stringless, and bright carmine. Tender and of delicious flavor.

Qt., 30c.; Pk., \$1.85; Bu., \$6.75

	Qt.	Pk.	Bu.
London Horticultural. An old favorite. Very productive and excellent as a snap or shell bean.....	.25	\$1.60	\$5.75
Red Cranberry. Almost stringless; one of the very best of string beans.....	.25	1.60	5.75
Lazy Wife's. Abundantly productive, and of excellent flavor, with long, green, fleshy and stringless pods.....	.25	1.75	6.50
Kentucky Wonder. Very productive, and of fine quality. Entirely stringless pods, of a silvery green color...	.25	1.75	6.50

**KENTUCKY WONDER.**

Indian Chief, or Black Wax. A very tender snap bean; yellow pods.....

	.25	1.75	6.50
White Case Knife. Good green-podded variety.....	.25	1.75	6.50
Large Lima. A large, late variety of excellent flavor.....	.25	1.75	6.50
Small Lima. Earlier and hardier than the preceding.....	.25	1.75	6.50

FLOWERING BEANS.

Valuable for use on trellises and arbors, being highly ornamental and free climbers; plants are of strong, quick growth, bearing large sprays of handsome flowers.

	Pkt.	Qt.
BUTTERFLY. Beautiful, large, snow-white wings, with salmon-rose standard.....	.10	
Scarlet Runner. Very ornamental, bright scarlet flowers.....	.05	.30
White Runner. Similar to above, flowers being white....	.05	.30

**BUTTERFLY BEAN.**

Inoculate beans with Farmogerm, to secure full pods and rich flavor. See page 42.

BEET.

The best results are obtained on a deep, rich, sandy loam. For early use sow as soon as the ground will admit, in drills fourteen inches apart, and thin to four inches; for the main crop, sow the first week in May, and for winter use as late as June. The soil should be deeply manured and well cultivated. In lifting and storing the roots, care must be taken that they are not bruised.

One ounce to fifty feet of drill; six pounds to the acre.

	Pkt.	Oz.	½ lb.	Lb.
Dirigo Extra Early. A rich, blood-red beet of fine grain and flavor, earlier than the Egyptian or the Eclipse.....	.05	.15	.35	\$1.15
Egyptian Blood Turnip. Very early and of rapid growth; color, deep crimson; of excellent quality ...	.05	.15	.35	1.15
Crosby's Egyptian. An improved strain of the Egyptian beet .....	.05	.15	.40	1.25
Eclipse. This variety is about as early as the Egyptian but larger and of finer quality; color, dark crimson..	.05	.15	.35	1.15
Edmand's Early Turnip. A variety of handsome round shape. The skin is deep blood red in color, the flesh very dark and exceedingly sweet and tender in quality .....	.05	.15	.35	1.15



DIRIGO EXTRA EARLY
BEET.

Dewing's Blood Turnip. Of fine form and flavor, blood red; a desirable variety .....	.05	.15	.35	1.15
Detroit Dark Red. Similar in shape to the Dewing's, of dark red color, with small tops.....	.05	.15	.40	1.25
Long Smooth Blood Red. This is a long, smooth beet, growing to a good size; color, dark blood red....	.05	.10	.30	1.00
Swiss Chard. Leaves used as greens; mid rib cooked and served as asparagus.....	.05	.10	.20	.50

Varieties grown for feeding stock. Sow in May or June—six pounds per acre.

	Pkt.	½ lb.	Lb.
White French Sugar Beet. Largely cultivated for feeding .....	.05	.12	.40
Lane's Imperial Sugar Beet. A greatly improved variety of the White French Sugar.....	.05	.15	.45
Allen's Mammoth Long Red Mangel Wurzel. A variety producing roots of mammoth size .....	.05	.15	.45
Norbiton Giant Mangel Wurzel. Extra fine long red; very large.....	.05	.15	.45
Yellow Globe Mangel Wurzel. Roots of large size and globular form; very productive .....	.05	.15	.45

DEWING'S TURNIP
BLOOD BEET.

Carter's Warden Orange Globe Mangel Wurzel. The very best globe-shaped variety in cultivation .....	.05	.15	.45
Golden Tankard Mangel Wurzel. Bright yellow; very productive .....	.05	.15	.45
"K. & W." Mammoth Red Mangel Wurzel. Bright red roots of fine quality.....	.05	.20	.50
"K. & W." Red Tankard Mangel Wurzel. Flesh red; one of the most nutritious varieties.....	.05	.20	.50

BROCCOLI.

Broccoli is nearly allied to the cauliflower, and may be regarded as a variety of that delicious vegetable. It is hardy and sure to head, but inferior in flavor.

	Pkt.	Oz.
Purple Cape. Heads greenish purple; a good variety .....	.05	.30
White Cape. Very white; sure to head; standard sort .....	.05	.30

BRUSSELS SPROUTS.

Produces from the stem small heads resembling cabbage in miniature. The sprouts are used as greens, and become very tender when touched by the frost. Sow in May and manage as winter cabbage.

	Pkt.	Oz.	½ lb.
Improved Dwarf. A variety of excellent quality .....	.05	.15	.50



ALLEN'S MAMMOTH
LONG RED MANGEL
WURZEL.





COLUMBIA CABBAGE.

Charleston Wakefield. Resembles the Jersey Wakefield, heads larger and more uniform

Henderson's Early Summer. One of the earliest of large cabbages, coming in but a few days later than the Wakefield; heads of large size, very solid and compact

Copenhagen Market. One of the best large, round head, early cabbages in cultivation, the type being thoroughly fixed and nearly all the heads maturing at the same time. The plant is short stemmed; heads set near the ground, are very solid, with a small core, and of fine quality. One of the best early cabbages for market gardeners

Early Spring. Short-stemmed, round, flat-headed, early variety. Solid and uniform in growth

Early Winningstadt. An excellent sort; heads of large size

All Seasons. Larger than Henderson's Early Summer, nearly as early; very solid and sure heading

Fottler's Improved Brunswick. An excellent early Drumhead variety; produces a firm and solid head

Premium Flat Dutch. A standard late variety

Stone-Mason Drumhead. One of the best for a main crop

STONE-MASON DRUMHEAD. Cape Elizabeth grown. A great improvement on the above; medium-sized, round, hard head. An excellent winter variety

Henderson's Succession. An excellent second-early or late sort

Marblehead Mammoth Drumhead. The largest variety of Drumheads

Danish Ball Head (Imported). Heads round and solid. A good winter variety

DANISH BALL HEAD OR HOLLANDER. Cape Elizabeth grown. A valuable, round, solid winter variety. Is a long keeper, and profitable for shipping, keeping long after other sorts have gone

Danish Round Head (Imported). Similar in style and habit to the Ball Head, but shorter stemmed and about two weeks earlier. Perfectly round, solid head

Improved American Savoy. Very sweet and tender; good-sized, firm heads; very reliable and much esteemed for family use

Mammoth Red Rock. Used almost exclusively for pickling

CABBAGE.

The cabbage is one of the most important vegetables, and some of its varieties are universally cultivated. The ground must be highly manured, deeply dug or ploughed, and thoroughly worked, to insure good, full-sized heads. A heavy, moist and fresh loam is the most suitable. The early sorts should be sown very early in the spring, in hot-beds, or later in the open ground. Eighteen inches by three feet apart is the common distance.

One ounce will produce about 3,000 plants.

Pkt. Oz. $\frac{1}{2}$ lb. Lb.

COLUMBIA. Very early and compact. Is hardy and vigorous; produces splendid solid heads, of marketable size, and is recommended as one of the most desirable summer varieties

Early Jersey Wakefield. A standard early variety for home use or market

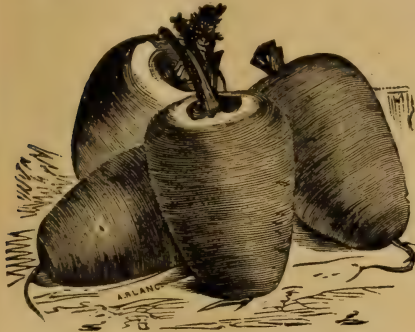


DANISH BALL HEAD CABBAGE.

CARROT.

Carrots require a very finely pulverized soil to grow them to perfection. A good, light and well-enriched sandy loam is the best for this crop. For field culture, sow in drills, three to three and one-half feet apart, and for table use sow the smaller varieties in rows sixteen to eighteen inches apart. For early crops, cover one-half an inch deep, and thin to three inches apart in the rows; for late, cover three-fourths of an inch deep, and thin to four inches.

One ounce to one hundred feet of drill; three to four pounds to the acre.



OXHEART CARROT.

	Pkt.	Oz.	½ lb.	Lb.
Early French Forcing. The earliest variety; valuable for forcing.....	.05	.15	.40	\$1.25
Early Horn. Early, fine grain, medium size; an excellent table sort.....	.05	.15	.40	1.25
Oxheart. Very thick and short, fine grained and sweet.....	.05	.10	.25	.85
Chantenay. A choice variety; longer than the Scarlet Horn, and a little broader at the top.....	.05	.15	.40	1.25
Danvers' Half Long. In form it is midway between the Long Orange and Short Horn. The root is of a rich, dark orange color; and grows very smooth. Very productive and keeps well.....	.05	.10	.25	.85

Improved Long Orange. The best late variety. Roots of large size, heavy cropper; an excellent keeper.....	.05	.10	.25	.75
Large White Belgian. Large, long-rooted variety; valuable for feeding.....	.05	.10	.20	.60

CAULIFLOWER.

Any soil that will grow early cabbages will grow cauliflower, as their requirements are almost similar, but as the product is more valuable, extra manuring and preparation of the soil will be well repaid.

The seeds may be sown in the hot-bed in March or April, and transplanted to open ground about the first of May.

One ounce will produce about 3,000 plants.

	Pkt.	Oz.
Extra Early Dwarf Erfurt. The earliest variety; large, compact heads, of fine quality.....	.15	\$2.00
Henderson's Early Snowball. One of the early sorts. Very reliable and grown largely for the market.....	.15	2.00
THORBURN'S GILT EDGE. Large, heavy sort; one of the best and surest of all the sorts now in cultivation.....	.15	2.25
Carter's Dwarf Mammoth. A hardy variety, of dwarf and compact habit, with a firm, white head; stands dry weather.....	.15	2.00
Carter's Autumn Giant. A large late variety.....	.10	.50



THORBURN'S GILT-EDGE CAULIFLOWER.

CELERY.

To have celery early it should be sown in a hot-bed, quite early in the spring, and when three inches high plant out in a well-prepared bed, which must be covered in frosty weather. For the principal crop sow early in the spring, very shallow in the seed-bed, and when the plants are about six inches high transplant them six inches apart into trenches for blanching. Dig the trenches four feet apart, a foot wide and ten inches deep. Fill in five or six inches of well-rotted manure, and mix thoroughly half a spade deep with the earth at the bottom. The tops of the plants should be shortened before they are set. Earth up to blanch three or four times during their growth, taking care that no earth falls in the center of the plant.

One ounce of seed produces about 4,000 plants.

	Pkt.	Oz.	½ lb.
Boston Market. A favorite variety, remarkable for its tender, crisp and succulent stems, and its peculiarly mild flavor; keeps well.....	.05	.20	.60
Henderson's White Plume. Crisp, solid and possessing a sweet, nutty flavor; requires very little labor in blanching. Very early and handsome.....	.05	.20	.60



GOLDEN SELF-BLANCHING CELERY.

CELERY—Continued.

	Pkt.	Oz.	½ lb.	Lb.
Pink Plume. Similar to White Plume, except in color; of superior quality and a compact grower .....	.05	.20	.60	
Golden Self-Blanching. A fine, solid variety, of a beautiful waxy, golden color; very thick stalks of excellent flavor; growth close, compact and of medium height...	.05	.30	1.00	
Giant Pascal. An easily blanched variety, superior for late use .....	.05	.20	.60	
Soup Celery. Used for flavoring pickles, soups, etc. ....	.05	.10	.30	

CHERVIL.

	Pkt.	Oz.	½ lb.	Lb.
Curled Chervil. An aromatic sweet herb. The young leaves are used in soups and salads. Sow thinly in May, in drills half an inch deep, one foot apart .....	.05	.10	.25	

CHICORY.

	Pkt.	Oz.	½ lb.	Lb.
Large Rooted. Used to mix with, or as a substitute for coffee. Cultivation same as the carrot .....	.05	.10	.25	

CORN—Sweet.

The sweet or sugar varieties being liable to rot in cold, wet ground, should not be planted before the middle of May, and for a succession continue planting every two weeks until July, in rich, well-manured grounds, in hills three feet apart each way, covering about an inch, and thin out to three plants to a hill, or plant in rows four feet apart, and to stand eight inches apart in the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

One quart to two hundred hills; ten quarts to an acre.

Corn ordered by mail is subject to an extra charge of fifteen cents per quart for postage. Pints furnished at quart rates. For larger shipments by mail, see Parcels Post rates on page 3 of this Catalogue. (Eight cents per pound. Maximum shipment, eleven pounds.)

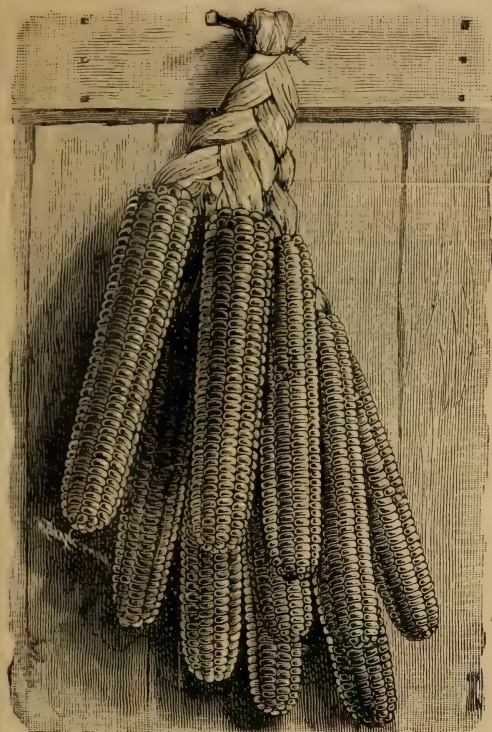
	Pkt.	Qt.	Pk.	Bu.
PEEP O'DAY. Extremely early, very sweet, and one of the first to mature. Stalks from three and one-half to four and one-half feet in height, with from two to three ears each. Small, white cob, with rich, tender kernel .....	.05	.20	\$1.15	\$4.00



CROSBY EXTRA EARLY SWEET
CORN.

Cory. Very early, dwarf variety, desirable for private or market gardens .....	.05	.20	1.15	4.00
White Cory. Similar to the above, with white cob .....	.05	.20	1.15	4.00
Burbank's Early. As early as the Cory. Has a pure white cob, with a rich, cream-white kernel; sweet and juicy .....	.05	.20	1.15	4.00
Early Marblehead. This resembles very closely the Cory, but is not quite as early. ....	.05	.20	1.15	4.00
"K. & W." CROSBY EXTRA EARLY. The best early sort, sweet and of fine flavor. Dwarf, with ears set low, averaging from sixteen to eighteen rows. An excellent market variety, and largely grown for canning. The seed offered is from selected stock of our own growing .....	.10	.25	1.50	5.50
Early Crosby. Similar to the above, the stalks being taller and heavier; nearly ten days later .....	.05	.20	1.00	3.75
GOLDEN BANTAM. A superior variety of a bright golden color; is very hardy and productive and is of a rich sugary flavor .....	.10	.25	1.35	5.00
Mammoth Golden. Similar to the above, but having larger ears .....	.10	.25	1.50	5.50
Stowell's Evergreen. A late variety of excellent quality, remaining longer in the green state than any other kind .....	.05	.20	1.00	3.50
Potter's Excelsior. Twelve-rowed, very sweet and tender .....	.05	.20	1.00	3.75
Country Gentleman. Medium early and productive .....	.05	.20	1.00	3.75
Black Mexican. Grain bluish-black, especially rich in sugar qualities .....	.05	.20	1.00	3.50

FIELD AND ENSILAGE CORN.



EARLY YELLOW FIELD CORN.

	Qt.	Pk.	Bu.
Winn's Hybrid. A very fine field variety; safe to plant in this state; yields large crops.....	.15	.75	\$2.50
Longfellow. A fine field variety, having very long ears, small cob, and large kernel.....	.15	.65	2.25
Early Yellow Canada. Well known, early, eight-rowed variety.....	.15	.65	2.25
Evergreen Fodder. Sweet corn for ensilage.....		.60	2.00
Red Cob Ensilage. A pure white corn. Is tender and juicy, has short joints, and grows to a great height, with an abundance of leaves.....		.35	1.30
Leaming. An early, very productive variety. One of the best for ensilage; profitable as a green fodder.....		.35	1.30
Early Sanford. Very early; ears white; excellent for fodder and ensilage.....		.60	2.00

CRESS OR PEPPERGRASS.

A well-known salad. Requires to be sown thickly and covered very slightly. Sow at frequent intervals to keep up a succession, as it soon runs to seed.

	Pkt.	Oz.	½ lb.
Extra Curled. Very fine; may be cut two or three times.....	.05	.10	.20
Water Cress. A hardy perennial aquatic plant, growing in water along the margins of streams.....	.10	.40	\$1.25

CUCUMBER.

The cucumber is a tender annual, and therefore should not be planted or set out in the open air until there is a prospect of continued warm and pleasant weather. Cucumbers succeed best in warm, moist, rich, loamy ground. The hills should be four or five feet apart in each direction. When all danger from insects is passed, leave but three or four of the strongest plants in the hill.

One ounce to fifty hills.



IMPROVED WHITE SPINE CUCUMBER.

West India Gherkin.

CUMBERLAND. A variety of the Improved White Spine type. Is a splendid table sort, and excellent for pickling. Color, deep green, with white tip; flesh firm; very crisp and tender.....

Early Russian. The earliest variety.....

Early Frame. An early standard variety, about five inches long.....

Improved White Spine. Superior for table use; very productive; medium size, straight and well formed; a favorite market variety.....

Early Green Cluster. Grows in clusters; early and productive.....

Short Green. Similar to Early Frame.....

Long Green. Long and crisp; a popular and reliable variety for pickling.....

Boston Pickling. The finest variety to grow for pickles; yields large crops; short, straight and dark green.....

Small prickly variety; grown exclusively for pickling.....

Pkt. Oz. ½ lb. Lb.

.05 .10 .25 .75

.05 .10 .25 .75

.05 .10 .25 .75

.05 .10 .25 .75

.05 .10 .25 .75

.05 .10 .25 .75

.05 .10 .25 .75

.05 .10 .25 .75

.05 .10 .40 \$1.25



LONG GREEN CUCUMBER.

CUCUMBER—Continued.

JAPANESE CLIMBING
CUCUMBER.

	Pkt.	Oz.	½ lb.	Lb.
Japanese Climbing. Quick, strong growing vines, which may be trained upon a trellis or poles. Fruit from twelve to sixteen inches in length, skin dark green, flesh pure white, crisp and of fine flavor.....	.05	.10	.35	\$1.00
Lemon. A distinct type; nearly round, with the yellow and green markings and smooth skin of the lemon, while the flesh is exceedingly tender, crisp and sweet.	.10	.15	.50	1.50

DANDELION.

A hardy perennial plant, with broad, thick leaves, affording one of the earliest as well as one of the most healthful of spring greens. Sow as early as the weather will permit, in good, well-enriched soil, in rows twelve inches apart, covering seed one-fourth of an inch deep, the earth firmly pressed over the seed.

One ounce to one hundred feet of drill.

IMPROVED FRENCH THICK-LEAVED
DANDELION.

Improved French Thick-Leaved. The best variety... .10 .30 .90 3.25

EGG PLANT.

The egg plant will thrive well in any good garden soil. Sow in the hot-bed, and when two or three inches high prick out into pots, or rows two and one-half to three inches apart. When the weather will permit, transplant into good, rich soil, thirty inches apart each way.

	Pkt.	Oz.
New York Improved Purple. The leading market variety; very productive .....	.10	.30
Early Long Purple. Hardy and productive .....	.10	.25
White. Choice, for ornamental use.....	.10	.25



EGG PLANT.

ENDIVE.

For early use, sow in May, scattering the seed thinly in drills ten inches apart, covering it lightly, and for a succession, every two or three weeks until mid-summer. The plants must be blanched before using, which is accomplished by gathering the large outer leaves to a point at the top, and tying them together.

White Curled. For early use .....	.05	.15
Green Curled. Best for late crop.....	.05	.15

KALE.

Sow early in May in a prepared bed, covering the seed lightly. Transplant in June, and treat in the same manner as for cabbage.

	Pkt.	Oz.	½ lb.
Green Curled Scotch. A round dwarf variety, rarely exceeding eighteen inches in height, but spreading out under good cultivation to three feet in diameter .....	.05	.10	.30

KOHLRABI.

A vegetable intermediate between the cabbage and turnip. It is best cultivated by sowing the seeds in rows, in May, June and July, according to latitude.

Early White. Flesh white and tender; the best market sort.....	.05	.25	.60
Early Purple. Differing from the above in color, being of a bluish purple.....	.05	.25	.60

LEEK.

The leek is very hardy and easily cultivated. It succeeds best in a light, well-enriched soil. Sow as early in the spring as practicable, in drills one inch deep, and one foot apart. When six or eight inches high, they may be transplanted in rows ten inches apart each way, as deep as possible, that the neck, being covered, may be blanched.

	Pkt.	Oz.	½ lb.	Lb.
London Broad Flag. A large variety with broad leaves.....	.05	.15	.35	\$1.00

LETTUCE.

Lettuce thrives best in rich, moist ground. Sow the seeds in hot-beds in February or March, and transplant into a sheltered border with a southern exposure. For successive crops, sowing may be made in the open ground as early as spring opens, and continuing until July.

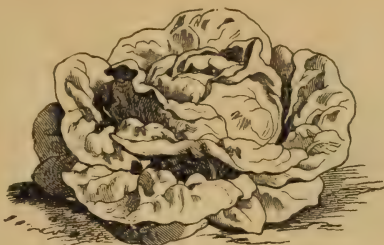
One ounce to one hundred and twenty feet of drill.

	Pkt.	Oz.	½ lb.
Hittinger's Belmont Forcing. Larger than the White-seeded Tennisball, nearly as early and of excellent quality; a choice strain for forcing .....	.05	.15	.40

LETTUCE—Continued.



BOSTON CURLED LETTUCE.



VICTORIA CABBAGE LETTUCE.

	Pkt.	Oz.	½ lb.
Early Curled Silesia. Fine for summer use .....	.05	.10	.30
Victoria Cabbage. Hardy and fine for early sowing .....	.05	.10	.30
Black-Seeded Tennisball. Popular for open-air culture; heads compact, crisp and tender .....	.05	.10	.30
White-Seeded Tennisball. A good early sort, used largely for forcing .....	.05	.10	.30
Boston Curled. A variety of great beauty and of very superior quality. Leaves beautifully curled; attractive on table .....	.05	.10	.30
Defiance. Large, solid and crisp; stands the summer heat .....	.05	.10	.30
Hanson. Heads very large, solid, tender, crisp and of fine flavor; color beautiful green outside and white within .....	.05	.10	.30
Mignonette. Small, compact, creamy-yellow heads, tinged outside with russet; of superior quality, sweet, crisp and tender, very early and hardy; excellent "all seasons" variety ..	.05	.15	.40
Golden Queen. Medium sized; golden-yellow heads, tender and crisp; a fine early head variety for forcing or open air culture .....	.05	.10	.30
Salamander. A fine summer lettuce. Is slow to run to seed, and will stand the drought and heat better than other varieties .....	.05	.10	.30
Deacon. Large and very solid heads, crisp and tender .....	.05	.10	.30
Big Boston. Fine for forcing in cold frames, and for planting in the open ground .....	.05	.10	.30
Brown Dutch. A large, hardy variety .....	.05	.10	.30
White Paris Cos. A sort with long, narrow, upright leaves; does not head, but when tied up blanches very easily .....	.05	.10	.30

MARTYNIA.

A strong-growing, hardy annual, with curious-shaped seed-pods, which, when young and tender, are highly prized for pickling. The pods are produced in great abundance, and should be gathered when about half grown. Plant in May or June, in rows two feet apart, making hills about a foot apart.

Martynia Probosidea. Best for pickling05	.25	.75
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MONTREAL
MELON.

MELON—Musk.

Melons thrive best in a moderately enriched, light soil. The hills should be six feet apart each way. After all danger of frost is passed, plant twelve or fifteen seeds in each hill, and when well up, thin out to three or four plants.

One ounce to sixty hills; two to three pounds for an acre.

	Pkt.	Oz.	½ lb.	Lb.
Emerald Gem. Medium size; flesh rich salmon, of delicious flavor and superior quality; early and prolific .....	.05	.10	.25	.75
Green Citron. Fruit medium size, deeply netted, shape nearly round; flesh green, and of rich, delicious flavor .....	.05	.10	.25	.75
Montreal. Large, round netted; flesh thick and light green ..	.05	.10	.25	.75
Large Round Yellow Cantaloupe. Flesh reddish orange, sweet and of good flavor; an early and productive variety .....	.05	.10	.25	.75
Large Yellow Musk. A very large variety, deeply ribbed and thickly netted; flesh salmon yellow, thick and sweet .....	.05	.10	.25	.75
Surprise. Very early; medium size; salmon colored; flesh of superior flavor .....	.05	.10	.25	.75
Rocky Ford. Flesh green; medium size; oval shape .....	.05	.10	.25	.75
Banana. So called on account of its shape. The color is a delicate straw; flesh (the melon being nearly solid) a rich salmon. The flavor is delicious when the melons are thoroughly ripe. A fine early variety .....	.05	.10	.25	.75

MELON—Water.

Plant in hills eight feet apart and cultivate same as musk melon. One ounce for thirty hills; four to five pounds to the acre.

Mountain Sweet. An old and reliable sort; flesh red .....	.05	.10	.20	.65
Black Spanish. Fruit of large size, almost round; skin dark green; flesh red .....	.05	.10	.20	.65
Phinney's Early. Productive, early and finely flavored; flesh red .....	.05	.10	.20	.65
Citron. The standard variety for preserves .....	.05	.10	.20	.65

MUSHROOM SPAWN.



MUSHROOM.

Mushrooms may be grown in a warm cellar or shed in winter, or in the open air in summer. Take partially dry, fresh horse manure and lay it in a heap to ferment; turn and mix it well every few days, and when well fermented, it may be made into a bed, mixing it well together and beating or treading it firmly. Use a thermometer to thrust into the bed, and note the temperature. When the heat has partially subsided, leaving a temperature of 70° to 80°, put in the spawn, which may be inserted in pieces the size of a walnut, about two inches deep and six inches apart. After about two weeks, cover with fresh soil about two inches deep and beat it down evenly and firmly. Finish off with a covering of clean straw or hay about a foot thick. If the temperature is right, mushrooms will begin to come up in about six to eight weeks, and the bed will continue bearing for about a month. One pound of spawn is sufficient for a bed 2 x 6 feet.

English Spawn In bricks, per lb., 12 cts.; 10 lbs., \$1.00

By mail, add ten cents per pound for postage, and for larger shipments by mail, see *Parcels Post* rates on page 3 of this Catalogue. (Maximum shipment, eleven pounds.)

MUSTARD.

A pungent salad used with cress. The seed is used for flavoring pickles, etc. Sow in May thickly in rows and cut when two or three inches high.

One ounce to forty feet of drill.

White London. Best for salads	Oz.	Lb.
	.05	.25
Brown .....	.05	.35

OKRA.

Sow late in the spring, after the ground has become warm, in drills three feet apart, where the plants are to remain. Thin out from nine to twelve inches. They should be well manured. They may also be raised in pots, or in a hot-bed, and transplanted.

Improved Dwarf Green. Small, green, round, smooth pods.....	Pkt.	Oz.	½ lb.
	.05	.10	.20

ONION.

No vegetable is more extensively known and cultivated than the onion. A good crop is impossible unless the soil is very rich and kept clean. Use well-rotted manure freely, and get the crop in as soon as possible in the spring, no matter if the weather is cold and unpleasant. Sow in drills one foot apart and cover about one-third of an inch, treading or rolling after sowing, so that the hot, dry atmosphere may not dry up and destroy the sprouting seed.

One ounce to one hundred feet of drill; five pounds to the acre.

Early Yellow Cracker. Flat, early onion, of mild and delicate flavor, and a good keeper	Pkt.	Oz.	½ lb.	Lb.
	.05	.20	.65	\$2.00

"K. & W." YELLOW GLOBE DANVERS. Extra choice Maine grown seed, the most popular of all the yellow onions for market and home use. Uniform in shape, heavy cropper, good keeper, and of fine, mild flavor. A profitable variety for market gardeners.....

	.05	.25	1.00	3.25
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YELLOW GLOBE DANVERS
ONION.

Yellow Globe Danvers. Grown from selected stock; a standard variety.....	.05	.15	.40	1.35
Large Red Wethersfield. Large size, productive and a good keeper.....	.05	.15	.50	1.50
Extra Early Red Globe. Ten days earlier than the Wethersfield, of medium size and deep, rich color; an abundant producer, and of good form and flavor, keeping well.....	.05	.15	.50	1.50
Prizetaker. Large, pale yellow onion; flesh white; mild flavor .....	.05	.20	.60	2.00
White Portugal. A mild and desirable summer variety; extensively grown for pickling.....	.05	.20	.65	2.25
New Queen. A silver-skinned variety, of quick growth and remarkable keeping qualities.....	.05	.20	.65	2.25
Red Globe, Southport. Flesh fine grain, mild and tender; matures quite early; good size .....	.05	.15	.50	1.50
White Globe, Southport. Clear white skin, large, globe-shaped; heavy yielder and good keeper .....	.05	.20	.65	2.00
Yellow Globe, Southport. A large, handsome, yellow variety; very productive, of mild flavor, and a good keeper .....	.05	.15	.50	1.50



ONION SETS.

ONION SETS.

Onion sets should be planted near the surface as early in the spring as the ground will permit, in drills about twelve inches apart and four inches in the rows. They produce a very early and profitable crop, and grow in any good soil.

Add ten cents per quart if sent by mail, and for larger shipments by mail, see *Parcels Post* rates on page 3 of this Catalogue. (Eight cents per pound. Maximum shipment, eleven pounds.)

	Qt.	Pk.
White Onion Sets .....	.15	\$1.00
Yellow Onion Sets .....	.15	.90

For larger quantities, prices will be given on application.

PARSLEY.

Parsley requires rich, mellow soil; sow thickly in drills, one foot apart and half an inch deep. As the seed germinates slowly, it is best to soak it for a few hours in tepid water before sowing. For winter use protect in a glass frame or light cellar. One ounce to one hundred and fifty feet of drill.

	Pkt.	Oz.	½ lb.
Extra Double Curled ..	.05	.10	.20
Fern Leaved .....	.05	.10	.20

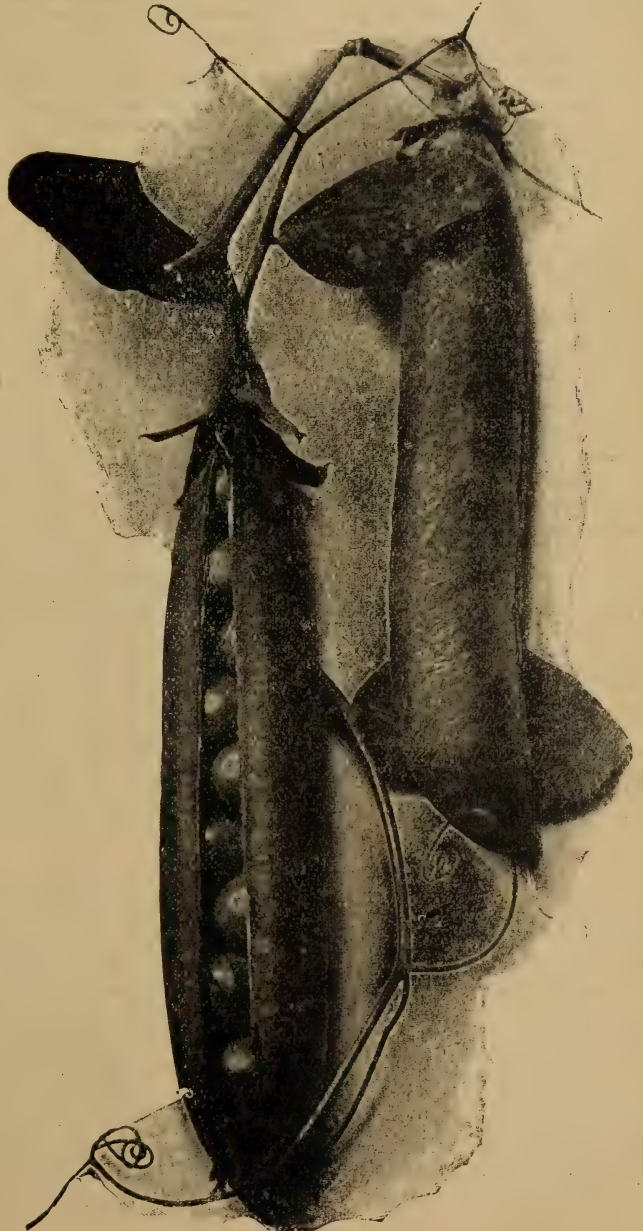
PARSNIP.

Sow as early in the spring as the weather will admit, in drills fifteen inches apart, covering half an inch deep. When well up thin out to five or six inches apart in rows. Unlike carrots, they are improved by frosts, and it is usual to take up in the fall a certain quantity for winter use, leaving the rest in the ground until spring, to be dug as required. One ounce to two hundred feet of drill; five pounds to the acre.

	Pkt.	Oz.	½ lb.	Lb.
Arlington Long White. Roots very long and smooth; one of the best for market gardeners.....	.05	.10	.20	.50
Abbott's Improved. Smooth and quite large; one of the best.....	.05	.10	.20	.50
Hollow Crown. Roots very long, growing mostly below the surface of the ground....	.05	.10	.20	.50

PEAS.

Peas, for an early crop, should be sown as soon as the ground is in working condition. The soil for their reception should be light, dry and well sheltered. Mild manure, such as leaf mold, has a beneficial effect; but for many of the varieties the soil cannot be too rich. For general crops, the ground should be well manured the previous year, which causes them to yield more abundantly. When grown as a market crop, peas are never staked, and are sown in single rows, two or three inches deep, and from two to three feet apart, according to the variety or strength of the soil. When grown in small quantities for private use, they are generally sown in double rows, six or eight inches apart, and the tall varieties staked up by brush.



PEAS—Continued.

One quart to seventy-five feet of drill; from one to two bushels to the acre.

*Peas ordered by mail are subject to an extra charge of fifteen cents per quart for postage. Pints furnished at quart rates. For larger quantities by mail, see *Parcels Post* rates on page 3 of this Catalogue. (Eight cents per pound. Maximum shipment, eleven pounds.)*

Extra Early.

	Qt.	Pk.	Bu.
GRADUS. One of the earliest large-podded peas grown, being extra early, combining quality, size and productiveness. Produces healthy, vigorous vines two and one-half feet high, bearing well-developed pods, containing peas of fine flavor.....	.35	\$2.50	\$9.00
THOMAS LAXTON. One of the best early wrinkled varieties, closely resembling the Gradus in size; pods large and well filled with peas of finest flavor. Hardy and extremely productive.....	.35	2.50	9.00
NOTT'S EXCELSIOR. Robust and vigorous in growth, producing handsome pods, closely packed with large peas of fine flavor. An improvement on American Wonder, being more vigorous and prolific; height, 12 inches.....	.30	2.00	7.25
SUTTON'S EXCELSIOR. Same habit of growth as Nott's Excelsior, bearing larger pods, filled with large peas, tender and of most delicious flavor, and produced in greater abundance.....	.30	2.25	7.50
LAXTONIAN. One of the earliest large, wrinkled peas. Vines are vigorous, growing about eighteen inches high; large, even-sized, deep green pods, long and curved; peas of fine quality.....	.75		
Cleveland's Alaska. A fine blue-seeded, extra early pea, with dark green colored pods; uniform in growth and almost entirely free from sports or runners; height, 2½ feet.....	.25	1.75	6.00
"K. & W." Extra Early. A variety similar to, but an improvement upon, the Alaska, being fully as early, but bearing larger pods; height, about 2 feet.....	.30	2.00	7.00
Cleveland's Eclipse. This pea is a very early variety, a vigorous grower and a large producer, with pods of good size and true American Wonder in shape. Seeds green and wrinkled and of sweet and delicious flavor; height, 2 feet.....	.30	2.00	7.00
Bliss' American Wonder. One of the earliest wrinkled sorts; grows about 9 inches high and is covered with well-filled pods.....	.30	2.25	7.50
McLean's Little Gem. A dwarf green, wrinkled sort of superior flavor; 1 foot.....	.25	1.75	6.00
Carter's Premium Gem. A very fine dwarf, wrinkled pea, an improvement on Little Gem; 1 foot.....	.25	1.75	6.00
Carter's First Crop. An extra early, smooth variety; 2½ feet.....	.25	1.75	6.00
Maud S. One of the earliest smooth peas; 2½ feet.....	.25	1.75	6.00

Second Early Varieties.

Dwarf Telephone. A choice variety with dwarf vines, bearing large, handsome pods, with peas of fine quality. Vine 18 inches high, stocky, healthy and vigorous, with almost no tendency to sport.....	.30	2.25	8.25
Heroine. A medium early, green, wrinkled variety; pods remarkably long and handsome, slightly curved, well filled with large peas; 2 feet.....	.25	1.75	6.50
McLean's Advancer. A second early, green, wrinkled, market variety; pods long and well filled with peas of fine flavor; 2 feet.....	.25	1.75	6.00
Horsford's Market Garden. An excellent wrinkled variety, productive and of good quality; 2 feet.....	.25	1.75	6.50
Duke of Albany. Resembling Telephone in appearance; vine more dwarf; height, 2½ to 3 feet.....	.30	2.25	7.50

For General Crop.

ADMIRAL DEWEY. A variety entirely distinct from any pea yet grown. Foliage, vine and pods rich, dark green. Healthy and vigorous, producing pods of large size, filled with peas of splendid flavor. One of the best of all long-vine, large-podded peas; height, 3 1-2 feet.....	.30	2.00	7.25
CARTER'S IMPROVED TELEPHONE. An improvement on Carter's Telephone for PURITY and UNIFORMITY of HABITS, being true to name, showing no tendency to small, late pods, but bearing in great abundance LARGE, HANDSOME, FINELY FORMED PODS, from five to six inches in length. A superior wrinkled variety; height, 3 feet.....	.30	2.00	7.25
PRINCE EDWARD. A favorite of the extra large-podded varieties. Vines about four and one-half feet high. Pods are large, filled with enormous peas of tender, sweet and excellent flavor.....	.30	2.15	7.75
Champion of England. A well-known popular variety, unsurpassed in flavor, and very productive; 5 feet.....	.25	1.75	6.00

PEAS—Continued.

	Qt.	Pk.	Bu.
Yorkshire Hero. A green, wrinkled variety, of branching habit and fine flavor; 2½ feet.	.25	\$1.75	\$6.25
Sutton's Dwarf Defiance. Very productive. Pods handsome, long, straight, dark green, and filled with large peas of fine flavor.	.30	2.00	7.25
Improved Stratagem. One of the best of the large, wrinkled varieties, with pods of immense size, uniformly filled with very large, dark green peas of the finest quality; 2 feet	.30	2.25	7.50
Bliss' Everbearing. Fine wrinkled variety; pods three to four inches long, well filled with large peas; 2 feet	.30	2.00	6.75
Royal Dwarf White Marrowfat. One of the best late sorts; white seeded; very productive; 3 feet	.20	1.30	4.75
Black-eyed Marrowfat. This, as well as the preceding, is extensively grown as a field pea; hardy and productive; 4 feet	.20	1.30	4.75
White Canada Field. Valuable for sowing with oats for green fodder; excellent for feeding to pigeons, etc.	.10	.70	2.50

For a larger and better yield inoculate peas with Farmogerm. See page 42.

PEPPER.

Grown largely for pickles. Sow in hot-beds early in April and transplant to the open ground when the weather is warm and settled. The rows should be two feet apart and the plants fifteen inches apart in the rows. Rich, warm, mellow soil.

One ounce of seeds will produce about 2,000 plants.

	Pkt.	Oz.	½ lb.
Large Bell. Large and of mild flavor.	.05	.25	.75
Sweet Mountain or Mammoth. Similar to the Bell, but larger	.05	.25	.75
Large Squash. Productive; much used for pickles	.05	.25	.75
Red Cherry. Small, round, smooth, glossy scarlet fruit	.05	.25	.75
Long Red Cayenne. Bright red; very productive	.05	.25	.75

POTATOES.

ALL OUR STOCK IS GROWN IN MAINE.



Prices quoted on application.

EARLY WHITE OHIO. (Extra quality Bonney stock.) Splendid quality, extra early white potato, with pinkish eyes, skin slightly streaked with pink, smooth and round, rather long in shape. A good keeper and heavy cropper.

SIR WALTER RALEIGH. (Extra quality Bonney stock.) One of the handsomest potatoes grown. Is a perfectly white, smooth, oval, flat potato, medium in season, being about three weeks earlier than Green Mountain. A good yielder and an excellent keeping variety.

ACME. (Extra quality Bonney stock.) Is a sport from the Early Ohio. Round, oval in shape, with pink skin. Is very early, a large producing and good keeping variety, and is a superior table sort.

EARLY HARVEST. (Extra quality Bonney stock.) Handsome, smooth, white, very early potato, rather long in shape, of finest quality. A most desirable variety.

GOLD COIN. (Extra quality Bonney stock.) One of the leading main crop varieties. Is roundish oblong in shape, slightly flattened; is of very handsome appearance, skin tinted yellowish, flesh white. Is vigorous, productive, a heavy yielder and a very popular market sort.

NORCROSS. (Extra quality Bonney stock.) Large white variety; flat oval in shape, very fine in quality, yields well. A good main crop, or late potato.

POTATOES—Continued.

The following, though not of the Bonney stock, are excellent potatoes, selected northern grown.

Noroton Beauty or Quick Lunch. One of the earliest potatoes. Is white in color and uniform in size and shape. Its table quality is excellent.

Irish Cobbler. One of the most reliable of the early varieties. Cream-white color, vigorous grower, ripens uniformly, and a good keeper.

Pure Early Rose. The pioneer of all the improved varieties, still very popular and highly esteemed.

Beauty of Hebron. Very productive and early; slightly flesh-colored skin, with pure white flesh.

New Queen. Resembles the Hebron in color and form; a vigorous grower, producing large crops.

Gold Coin. Tubers are of a desirable size, in form slightly oblong, rather broad and quite thick, skin smooth, and of a light golden tint, sufficient to make them distinct from the white-skinned varieties; flesh pure white.

Improved Green Mountain. Improved by careful selection of seed. In season it is medium; one of the best yielders, and keeps well; color white, form round or oval, smooth skinned and a heavy yielder.

PUMPKIN.

Same cultivation as for cucumbers and melons.

	Pkt.	Oz.	½ lb.	Lb.
Large Cheese. Medium size; best for cooking.....	.05	.10	.20	.60
Sugar. Fine grained, sweet and prolific.....	.05	.10	.20	.50
Mammoth Tours. Grows to enormous size, frequently weighing 100 to 150 lbs. Oblong in shape, and is mainly used for feeding stock.....	.05	.10	.30	.90
Connecticut Field. Large; used for stock.....	.05	.10	.15	.35

RADISH.

Radishes thrive best in a light, rich, sandy loam; heavy or clayey soils not only delay their maturity, but produce crops much inferior, both in appearance and flavor. For a successive supply, sow from the middle of April until September, at intervals of two or three weeks. For an early supply they may be sown in a hot-bed in February.

One ounce for one hundred feet of drill.

Non Plus Ultra. The earliest forcing radish; extra early, maturing in about twenty days; round, bright red, with small tops; very mild.....	.05	.10	.20	.50
Crimson Giant Forcing. Rich crimson color, flesh white and solid, and of a mild, delicious flavor. Grows to a large size without becoming pithy. Excellent for forcing.....	.05	.10	.20	.60
Early Scarlet Turnip (white tip). Handsome bright scarlet color, with white tip.....	.05	.10	.20	.50
Long Scarlet Short Top. Very long and crisp; for frames or open ground.....	.05	.10	.20	.50
Early Scarlet Turnip. Round, scarlet, small, short top; mild and crisp.....	.05	.10	.20	.50
French Breakfast. A variety of quick growth; very mild and tender. One of the best for forcing.....	.05	.10	.20	.50
Early White Turnip-Rooted. Round, clear white.....	.05	.10	.20	.50
Icicle. Quick growing; clear white. Fine for forcing.....	.05	.10	.20	.60
Black Spanish. One of the hardiest and best for winter use.....	.05	.10	.20	.60



FRENCH BREAK-FAST RADISH.

SALSIFY.

Commonly called vegetable oyster. Used stewed, boiled or fried. When cooked has an oyster flavor. Sow early in drills fifteen inches apart; cover the seeds with fine soil, an inch and a half deep.

One ounce to fifty feet of drill.

	Pkt.	Oz.	½ lb.
Long White French.....	.05	.10	.30

SPINACH.

Sow early in the spring, in drills a foot apart, every two weeks for a succession, and as it grows, thin out for use. For fall use sow in August, and for winter crop in September. Cover that which is left out over winter with straw or leaves, after the weather becomes quite cold.

One ounce to one hundred feet of drill; ten to twelve pounds per acre.

	Oz.	½ lb.	Lb.
Victoria. A variety producing large, thick leaves of fine color and quality. Especially recommended for market gardeners.....	.05	.10	.25

SPINACH—Continued.

	Pkt.	Oz.	½ lb.	Lb.
Round Thick-Leaved. A valuable variety, with thick, dark green leaves; long standing and hardy .....		.05	.10	.25
Savoy Leaved. A very desirable variety; leaves wrinkled.....		.05	.10	.25
Long Standing. Dark green; the longest standing before going to seed .....		.05	.10	.25
Fall or Winter. One of the hardiest for fall planting .....		.05	.10	.25
New Zealand. Of branching habit, makes a very large plant, which stands drouth well. Leaves thick and fleshy, enduring the entire summer .....	.05	.10	.20	.65

Market gardeners, and others using large quantities, are requested to write for special quotations.

SQUASH.

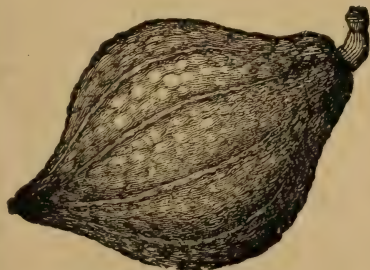
Any good, rich soil is adapted to the growth of the squash. They only thrive well in a warm temperature, as all the varieties are tender annuals, and the seed should not be sown in the spring until all danger from frost is past and the ground is warm and thoroughly settled. The hills for bush varieties should be about six feet apart; for running sorts, ten feet. Leave two plants to a hill.

Running varieties, one ounce to fifteen hills; four pounds per acre. Bush varieties, one ounce to fifty hills.

DELICIOUS. In color it closely follows the Hubbard, and in thickness of flesh it surpasses nearly every variety. No squash compares with it in fineness and compactness of grain, dryness and sweetness and richness of flavor. It is a fall and winter squash, but does not acquire its best qualities until winter. Per Pkt., 5c.; Oz., 10c.; 1-4 lb., 30c.; Lb., \$1.00.

**THE DELICIOUS SQUASH.**

Hubbard. Standard winter squash, a general favorite and grown more extensively than any other late variety; color dark green; shell extremely hard; flesh dry, fine-grained and sweet; excellent keeper.....	.05	.10	.25	.75
Golden Hubbard. Similar to Green Hubbard, of a rich orange-red color, and of fine flavor.....	.05	.10	.25	.75
Warted Hubbard. Dark green color, shell hard and warted, good keeper .....	.05	.10	.25	.75
Early Prolific Marrow. For fall and winter use this is a very desirable sort. Is of excellent quality and keeps well. Color brilliant orange red .....	.05	.10	.25	.75
Boston Marrow. A much esteemed variety; a good keeper and of excellent flavor .....	.05	.10	.25	.75
Turban. Orange-yellow; flesh of good flavor... ..	.05	.10	.25	.75
Yellow Bush Scalloped. An early market variety; excellent for shipping .....	.05	.10	.25	.75
Summer Crook-Neck. Early, productive, and of good quality; color orange yellow.....	.05	.10	.25	.75
Winter Crook-Neck. An old, well-known variety; hardy and a good keeper.....	.05	.10	.25	.75
Mammoth Chili. Grows to a large size, often weighing over two hundred pounds; excellent for stock.....	.05	.10	.30	1.00

**HUBBARD SQUASH.****TOMATO.**

This vegetable is one of the most important of all garden products. They thrive best in a warm, light, rich soil. For early plants, sow about the first week in March in a hot-bed, or in boxes or pots in a warm, window. When the plants are about two inches high, set out in boxes, three inches deep and four inches apart, in the same temperature, or pot singly. If again transplanted before setting out, the plants will be still more stocky. Set out in the open ground about the first of June, four feet apart each way, using a shovelful of rotted manure in each hill.

TOMATO—Continued.

One ounce for 1,500 plants.

	Pkt.	Oz.	½ lb.
EARLIANA. The earliest large tomato. Its large size, handsome shape, beautiful red color and fine quality are unsurpassed by any of the best early and medium sorts .....	.05	.20	.65
Bonny Best. Color an intense scarlet. It is roundish and slightly flattened at stem end. Early, prolific, and uniform in shape and size .....	.05	.30	.90
Scarlet Globe. Brilliant scarlet, ripens evenly, is smooth, round, a vigorous grower, and a most desirable table and canning variety .....	.05	.30	.90
Table Queen. Early, smooth, bright red color; flesh very solid; fine table variety .....	.05	.20	.65
Fordhook. Extra early; perfectly smooth and solid; medium size .....	.05	.20	.65
Livingston's Beauty. Color very glossy crimson; grows in clusters of four or five; fruit large and solid .....	.05	.20	.60
Livingston's Favorite. Productive; good flavor; few seeds; flesh solid, smooth and handsome .....	.05	.20	.60
Livingston's Perfection. Early, large, smooth and solid; blood red color .....	.05	.20	.60
Dwarf Champion. Dwarf variety; fruit medium size, resembling the Acme in color .....	.05	.20	.65
Dwarf Stone. The largest fruited of the dwarf varieties, the fruit being of a bright scarlet, and growing in clusters; flesh very solid, firm and smooth .....	.05	.25	.75
Red Cross. Early, very smooth and even in size throughout the season .....	.05	.20	.65
Red Cherry. A small early variety; size and shape of a cherry; for pickling .....	.05	.25	.75
Yellow Plum. Similar to Red Cherry, excepting color bright yellow .....	.05	.25	.75



EARLIANA TOMATO.

The following varieties at a uniform price of 5c. per pkt.; 20c. per oz.:

Royal Red, Stone, Essex Hybrid, Acme, Trophy, Paragon, Early Ruby, Canada Victor, Dwarf Aristocrat, Lorillard, Ponderosa.

TOBACCO SEED.

Connecticut Seed Leaf05 .30 \$1.00

TURNIP.

Turnips thrive best in rich, sandy, gravelly soil. The earliest varieties can be sown as soon as the ground can be worked, either in drills or broadcast. For a succession, sow at intervals of a fortnight until the last week in July for the fall and main crops.

One ounce for one hundred and fifty feet of drill; one to two pounds in drill to the acre.

To keep the roots fresh during the winter, they may be placed in a cool, dry cellar and buried with dry sand.

CARTER'S IMPERIAL
HARDY SWEDE.

	Pkt.	Oz.	½ lb.	Lb.
Purple-Top Milan. The earliest variety in cultivation. Flesh white, hard, and of excellent quality .....	.05	.08	.20	.65
White Egg. Oval; handsome and sweet .....	.05	.08	.15	.50
Purple-Top Strap Leaf. Best variety for main crop, equally good for spring or fall sowing; white flesh .....	.05	.08	.15	.50
White-Top Strap Leaf. Similar to the above in quality .....	.05	.08	.15	.50
Yellow Stone. Fine, hard, winter sort .....	.05	.08	.15	.50
Early White Six Weeks. Pure white; very early .....	.05	.08	.15	.50
Golden Ball. A rapid grower of excellent flavor; bright yellow, good keeper, and a superior table variety .....	.05	.08	.15	.50
Yellow Aberdeen. An excellent hardy variety, keeping well through the winter .....	.05	.08	.15	.50
Sweet German. White, sweet and a good keeper .....	.05	.08	.15	.50

RUTA BAGA or SWEDE TURNIP.

Carter's Imperial Hardy Swede. An improvement upon the other varieties, being larger, the flesh firmer, and an excellent keeper .....	.05	.08	.15	.40
Skirving's Purple-Top. A standard variety; hardy and productive .....	.05	.08	.15	.40

SWEET AND MEDICINAL HERBS.

Sow in spring, in shallow drills, one foot apart and when well up thin out or transplant to a proper distance apart.



Sweet Marjoram.

Summer Savory.

Thyme

	Pkt.	Oz.
Anise. Annual.....	.05	.15
Balm. Perennial.....	.05	.25
Basil, Sweet. Annual.....	.05	.15
Caraway. Biennial.....	.05	.10
Catnip. Perennial.....	.10	
Coriander. Annual.....	.05	.10
Dill. Biennial.....	.05	.10
Fennel, Sweet. Perennial.....	.05	.10
Horehound. Perennial.....	.05	.25
Hyssop. Perennial.....	.05	.25
Lavender. Perennial.....	.05	.15
Marjoram, Sweet. Annual.....	.05	.15
Rue. Perennial.....	.05	.15
Saffron. Annual.....	.05	.10
Sage. Annual. Per lb. \$1.50.....	.05	.15
Summer Savory. Annual.....	.05	.15
Thyme. Perennial.....	.05	.25
Wormwood. Perennial.....	.05	.25

General List of Grass Seeds and Clovers.

All orders will be filled at lowest price when they are received, and we will take pleasure in quoting prices at any time.

	Uses to which Best Suited.	Kinds of Lands to which Best Adapted.	Quantity to the Acre when Sown Alone.	Weight per Bushel.
Timothy	Hay	Stiff, loamy or bottom lands	1-2 bushel	45 lbs.
Red Top (Recleaned)	Pasture and Hay	Stiff, loamy or bottom lands	12 pounds	35 lbs.
Hungarian	Hay or Forage	Sandy, light or loamy soil	1 bushel	48 lbs.
Japanese Millet	Hay or Forage	Sandy, light or loamy soil	25 pounds	
Golden Millet	Hay or Forage	Sandy, light or loamy soil	1 bushel	50 lbs.
Orchard Grass	Hay and Pasture	Shady situation, loamy and stiff uplands	3 bushels	14 lbs.
Kentucky Blue Grass	Pasture and Lawn	Loamy and stiff soil	3 bushels	14 lbs.
Rhode Island Bent	Pasture and Lawn	Light and loamy soil	3 bushels	12 lbs.
Creeping Bent	Lawn	Light and loamy soil	3 bushels	20 lbs.
Fowl Meadow Grass	Hay	Wet meadows	2 bushels	10 lbs.
Red Clover	Hay or Pasture	Loamy and stiff soil	1-4 to 1-3 bushel	60 lbs.
Pea Vine Clover	Same uses and soil	as red clover, but makes larger growth.		
Alfalfa or Lucerne Clover	Hay only	Light or deep loam	1-3 bushel	60 lbs.
Alsike Clover	Hay or Pasture	Loamy or stiff bottoms	1-6 bushel	60 lbs.
Crimson Clover	Hay or Pasture	Light, loamy or stiff soil	1-4 bushel	60 lbs.
White Clover	Pasture and Lawn	Light, loamy or stiff soil	1-5 to 1-4 bushel	60 lbs.
Tall Meadow Oat Grass	Hay and Pasture	Light, dry and stiff uplands	4 to 5 bushels	11 lbs.
Italian Rye Grass	Hay and Pasture	Stiff lands and rich bottoms	2½ to 3 bushels	20 lbs.
Perennial Rye Grass	Hay and Pasture	Loamy and stiff uplands	2½ to 3 bushels	20 lbs.
Wood Meadow	Pasture and Lawn	Low, wet and shady situations	2 to 2½ bushels	14 lbs.
Rough Stalked Meadow	Pasture and Hay	Moist, sheltered and low situations	2½ to 3 bushels	14 lbs.
English Rye Grass	Pasture and Lawn	Moist, sheltered and low situations	3 bushels	24 lbs.
Sweet Vernal Grass (Annual)	Lawn	Stiff land, and rich, loamy soil	2 bushels	11 lbs.
Sweet Vernal Grass (Perennial)	Pasture and Lawn	Stiff land, and loamy, rich soil	2 bushels	11 lbs.
Meadow Foxtail	Pasture and Hay	Light, loamy or stiff soil	3 bushels	8 lbs.
Crested Dogtail	Lawn and golf links	Light, loamy or stiff soil	1½ to 2 bushels	21 lbs.
Sheep Fescue	Sheep Pasture	Dry, light soil	2½ to 3 bushels	12 lbs.
Sheep Fescue Fine Leaved	Lawn	Light, loamy soil	35 pounds	
Hard Fescue	Lawn	Dry, light soil	30 pounds	
Various Leaved Fescue	Pasture and shady lawn	Cold, moist land, and shady lawn	30 pounds	
Meadow Fescue	Pasture	Moist and low situations	2 bushels	15 lbs.
Tall Fescue	Pasture	Moist and shady situations	2 bushels	15 lbs.

Inoculation of clover seed with Farmogerm means a stronger catch and better yield. See page 42.

GRAINS, ETC.

At the Lowest Market Rates and of the Best Quality.
WHEAT, RYE, BARLEY, OATS AND BUCKWHEAT.

Vetches or Tares.

SPRING.—Culture same as field peas. Sow two bushels per acre.

Price per 100 lbs., \$5.75.

WINTER.—Also called sand or hairy vetch. Recommended for fall sowing with rye.

Price per 100 lbs., \$12.00.



Japanese Barnyard Millet.

Exceedingly popular as a forage plant. Heavy cropper. Succeeds best in a moderately moist soil, and may be sown from the middle of May until July, at the rate of 25 pounds per acre.

It is quite distinct from other varieties, being an enormous cropper and excellent, either green or cured, as hay.

Per lb., 8 cts.

Per 100 lbs., \$6.50.

Dwarf Essex Rape.

A forage plant of great merit, easily grown in any locality, and one of the most satisfactory quick-growing crops, especially for sheep.

As a fattening food for sheep, cattle, calves or pigs, it is without a rival in point of cheapness, is hardy, withstands drought, and will produce a crop in any soil. The seed may be sown from May to July, 10 to 12 pounds per acre.

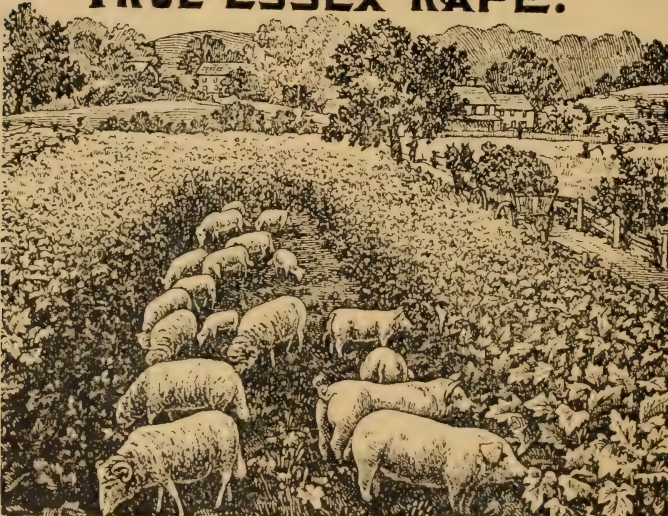
Per lb., 10 cts. Per 100 lbs., \$7.50.

Mammoth Yellow Soja Beans.

Valuable as a forage crop, and for fertilizing the soil, also for pasturing, feeding as green fodder, and for silo purposes. Sow one-half bushel to the acre.

Per qt., 15 cts. Per pk., 90 cts. Per bu., \$3.00.

TRUE ESSEX RAPE.



Essex Rape.



Vetches.

Velvet Beans.

A rival of the cow pea. Both vines and pods are eaten by live stock, and the beans can be ground, either with or without the pods, and fed instead of corn or oats, or can be mixed with them.

Per qt., 20 cts. Per pk., \$1.15.

Per bu., \$4.00.

New Era Cow Peas.

Smaller in size than the Whip-poor-will, and nearly two weeks earlier. One of the best varieties to sow, as it is extremely early, a good cropper, and produces more seed pods than most other kinds. A very valuable forage plant.

Per qt., 15 cts. Per pk., \$1.00.

Per bu., \$3.25.

White Canada Field Peas.

A small, hardy pea, valuable to sow early in the spring in connection with oats, to produce green forage and for making ensilage. They can be also sown alone, at the rate of three bushels per acre.

Per bu., \$2.50.

Inoculation of all legumes with Farmogerm is absolutely necessary for the best results. See page 43.

"K. & W." LAWN GRASS SEED.



VIEW ON THE WESTERN PROMENADE, PORTLAND.

To secure a rich, firm, deep and enduring lawn of luxuriant richness, not only should it be thoroughly prepared, well drained and graded, and enriched with decayed manures and commercial fertilizers, but it carefully sown with a sufficient quantity of

"K. & W." LAWN GRASS SEED,

it will result in a beautiful compact sward which will remain fresh and green throughout the season.

If sent by mail, add eight cents per pound for postage, and for larger shipments by mail, see Parcels Post rates on page 3 of this Catalogue.

Per pound, 20 cents.					
Bag containing	5 pounds,	.	.	.	\$.90
"	" 10 "	.	.	.	1.70
"	" 25 "	.	.	.	4.00

PERMANENT MIXTURE

For Golf Links and Putting Greens.

Especially prepared for sowing to produce a short, dense sward.

If sent by mail, add eight cents per pound for postage, and for larger shipments by mail, see Parcels Post rates on page 3 of this Catalogue.

Per pound, 25 cents.

THE "K. & W." NORTHERN WHITE OATS.

This unexcelled variety is free from rust, early and extremely hardy, yielding remarkably heavy crops, the grains being large, white, plump and first-class in every particular.

These oats have been carefully selected, thoroughly cleansed, and are free from fowl seeds.

Write for Quotations.

BOOKS

ON THE FARM, ORCHARD AND GARDEN.

All books sent postpaid on receipt of price.

American Farm Book.....	\$2.00	Garden, Money in the	\$1.00
Asparagus Culture.....	.50	Insects and Insecticides.....	1.50
Beekeeping Explained, Mysteries of	1.00	Key to Profitable Stock Raising.....	.25
Bulbs and Tuberous-Rooted Plants	1.50	Mushrooms—How to Grow Them.....	1.00
Cabbage, Cauliflower and allied Vegetables .....	.50	Making Poultry Pay.....	1.00
Celery for Profit .....	.20	Manures, Talks on. Revised Edition	1.50
Crops, Spraying.....	.25	Money in the Garden.....	1.00
Draining Land.....	1.00	Onions, How to Raise Them .....	.25
Duck Culture .....	.50	Potato Culture, A B C of.....	.60
Egg Farm, New, Revised and Enlarged.....	1.00	Profits in Poultry and their Profitable Management....	1.00
Farm of Four Acres, Our.....	.30	Silos, Ensilage and Silage.....	.50
Feeds and Feeding	2.00	Small Fruit Culturist.....	1.00
First Lessons in Dairying.....	.50	Strawberry Culturist.....	.25
Gardening for Pleasure. New and Enlarged Edition ..	1.50	The Book of Corn.....	1.50
Gardening for Profit. New and Enlarged Edition.....	1.50	Turkeys, How to Raise Them.....	1.00
Gardening for Young and Old	1.00	Window Flower Garden .....	.50

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF HILLS OR LENGTH OF DRILLS.

Asparagus.....	1 ounce....	60 feet of drill	Parsley	1 ounce....	150 feet of drill
Beet	1 ounce....	50 feet of drill	Pumpkin	1 ounce ..	40 hills
Beans, Dwarf	1 quart....	100 feet of drill	Dandelion	1 ounce....	100 feet of drill
Beans, Pole	1 quart....	150 hills	Parsnip	1 ounce....	200 feet of drill
Carrot	1 ounce....	100 feet of drill	Peas.....	1 quart....	75 feet of drill
Cucumber	1 ounce....	50 hills	Radish.....	1 ounce....	100 feet of drill
Corn	1 quart....	200 hills	Spinach.....	1 ounce....	100 feet of drill
Melon, Water	1 ounce....	30 hills	Squash, Early.....	1 ounce....	50 hills
Melon, Musk	1 ounce....	60 hills	Squash, Late.....	1 ounce....	15 hills
Onion	1 ounce....	100 feet of drill	Turnip	1 ounce....	150 feet of drill
Onion sets	1 quart....	40 feet of drill			

TABLE SHOWING THE QUANTITY OF SEED USUALLY SOWN UPON AN ACRE.

	Lbs. per bush.		Lbs. per bush.	
Barley, broadcast . . . . .	.48	2 to 3 bush.	Millet, Japanese40	25 lbs.
Beans, Dwarf, in drills . . . . .	.60	1½ bush.	Millet, German50	1 bush.
Beans, Pole, in hills . . . . .	.60	10 to 12 qts.	Oats, broadcast32	2 to 3 bush.
Beets, Table, in drills		6 lbs.	Onion, in drills	5 lbs.
Beets, Mangel Wurzel		5 lbs.	Onion Sets, in drills	6 to 12 bu.
Buckwheat . . . . .	.48	1 bush.	Parsnip, in drills	4 to 6 lbs.
Cabbage, in beds to transplant		¼ lb.	Peas, broadcast	3 bush.
Carrot, in drills		3 to 4 lbs.	Peas, in drills	2 bush.
Clover, Red . . . . .	.60	15 to 20 lbs.	Potatoes (cut tubers)60	8 bush.
Clover, White . . . . .	.60	12 to 15 lbs.	Pumpkin, in hills	4 lbs.
Clover, Alsike . . . . .	.60	10 lbs.	Radish, in drills	8 to 10 lbs.
Clover, Lucerne or Alfalfa . . . . .	.60	20 lbs.	Round Peas, in drills60	1½ bush.
Corn, in hills		10 qts.	Rye, broadcast56	1½ to 2 bu.
Corn, for fodder		3 bush.	Sage, in drills	8 to 10 lbs.
Cucumber, in hills		2 lbs.	Spinach, in drills	15 lbs.
Grass, Kentucky Blue14		3 bush.	Squash (bush varieties), in hills	4 lbs.
Grass, Orchard14		3 bush.	Squash (running varieties), in hills	3 lbs.
Grass, Red Top (re-cleaned)40		6 lbs.	Tomato, to transplant40	¼ lb.
Grass, Timothy45		½ bush.	Turnip, broadcast	2 to 3 lbs.
Grass, Hungarian48		1 bush.	Turnip, in drills	1½ lbs.
Grass, Lawn25		3 bush.	Vetches, broadcast	2 to 3 bush.
Melon, Musk, in hills		2 to 3 lbs.	Wheat, broadcast60	1½ to 2 bu.
Melon, Water, in hills		4 to 5 lbs.	Wrinkled Peas, in drills	1¼ bush.

SEEDLINGS AND VEGETABLE PLANTS.

FLOWER SEEDLINGS.

Per Doz.	Per Doz.	Per Doz.	Per Doz.
Aster..... 15c.	Pinks..... 15c.	Snapdragon..... 15c.	Pansies (choice strain) 30c.
Balsam..... 15c.	Phlox..... 15c.	Stocks..... 15c.	Verbenas..... 30c.
Marigold..... 15c.	Petunia..... 15c.	Zinnia..... 15c.	

VEGETABLE PLANTS.

CABBAGE PLANTS—Hot-bed plants.

Ready May 1st to 15th.

	Per doz.	Per 100	Per 1,000
Henderson's Summer,	.15	\$1.00	\$8.00
For Winter Crop.	Ready June 15th to 20th.		
Stone Mason Drumhead,		.30	\$2.75

CAULIFLOWER PLANTS—Hot-bed plants.

Ready May 1st to 15th.

	Per doz.	Per 100
Henderson's Snowball,	.20	\$1.25

CELERY PLANTS—Ready June 1st to 15th.

	Per 100	Per 1,000
Golden Self-Blanching,	.70	\$6.00
White Plume,	.70	6.00
Boston Market,	.70	6.00

TOMATO PLANTS—Ready May 15th to 20th.

Earliana, Canada Victor, Beauty, Red Cross, Scarlet Globe, Table Queen,	Dwarf Champion, Favorite, Fordhook, Perfection, Bonny Best.
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One dozen in each box, 30 cents.

LETTUCE PLANTS—Ready May 15th to 20th.

20 cents per dozen; \$1.25 per hundred.

PEPPER PLANTS—Ready about June 1st.

Large Bell or Squash.

20 cents per dozen; \$1.25 per hundred.

RHUBARB ROOTS.

15 cents each; \$1.50 per dozen.

CARNATION PINKS AND CANNAS.

(In 4-inch pots.) Selected for summer blooming.
15 cents each; \$1.50 per dozen.

SUMMER-FLOWERING BULBS.

GLADIOLUS.

Plant in good garden soil, after the ground becomes warm in the spring, in full exposure to the sun. Set bulbs from 4 to 6 inches deep.

Groff's Hybrid Seedlings. Each, 3c.; per doz., 25c.; per 100, \$1.50.

Extra White and Light. Each, 5c.; per doz., 35c.; per 100, \$2.00.

Extra Scarlet and Red. Each, 3c.; per doz., 25c.; per 100, \$1.75.

Superfine Mixed. A popular mixture of the most brilliantly colored varieties. Each, 5c.; per doz., 50c.; per 100, \$2.00.

Fine Mixed. Each, 3c.; per doz., 20c.; per 100, \$1.00.

CALADIUM ESCULENTUM.

Eight to ten inches in circumference. Each, 10c.; per doz., \$1.00.

MADEIRA VINE.

Each, 5c.; per doz., 50c.

GLOXINIAS.

Mixed Varieties. Each, 10c.; per doz., \$1.00.

Bulbs, except Caladium and Dahlias ordered by mail are subject to an extra charge of five cents per dozen for postage.
Caladium and Dahlias ordered by mail are subject to an extra charge of twenty cents per dozen for postage.

TUBEROUS BEGONIAS.

The tuberous-rooted begonias are among the handsomest of summer-flowering bulbs, as they bloom continuously throughout the summer.

Single.	Per		Double.	Per	
	Each.	Doz.		Each.	Doz.
Scarlet.....	.06	.60	Scarlet.....	.10	\$1.00
Orange.....	.06	.60	Orange.....	.10	1.00
Crimson.....	.06	.60	Crimson.....	.10	1.00
Pink.....	.06	.60	Pink.....	.10	1.00
White.....	.06	.60	White.....	.10	1.00
Yellow.....	.06	.60	Yellow.....	.10	1.00
Mixed.....	.06	.60	Mixed.....	.10	1.00

TUBEROSE.

Large bulbs. Each, 5c.; per doz., 50c.; per 100, \$3.00.

DAHLIAS.

Double Named Varieties. Growing plants; ready about May 15th. Each, 15c.; per dozen, \$1.25.

DUTCH FLOWERING BULBS.

FOR FALL PLANTING.

Our Bulb Catalogue will be issued in September and mailed free to all who write for it.

The Man with the Hoe Wants a Good Fertilizer.

"For the land's sake" give
him **BOWKER'S.**

Don't do a good job with the hoe and a poor one with the fertilizer. As long as you must hoe, why not have the best possible crops to show for it? Thorough cultivation, coupled with the right fertilizer, and enough of it, will increase the production and profits of any farm.

We have a brand to fit every crop and every pocketbook, and every bag of fertilizer we ship is backed by forty years of experience, prompt service, the best materials, the best facilities.

Cheap fertilizers cost too much.

The U. S. Department of Agriculture says, in Bulletin 467, "no one thing has been more clearly demonstrated by the work of the experiment stations than that **it does not pay to buy low-priced, low-grade fertilizers.**"



\$20 worth of our Stockbridge Manures will go further and supply better plant food than a ton of the usual fertilizer selling for \$30.

The Stockbridge, selling around \$40 a ton, contains twice as much nitrogen and often five times as much potash as the average \$25 to \$30 fertilizer.

**SAVE a THIRD of YOUR FERTILIZER
MONEY by USING the STOCKBRIDGE.**

Write us about your fertilizer plans and ask for quotations. Agents wanted where we have none.

BOWKER FERTILIZER COMPANY,
43 Chatham Street, - Boston

KENDALL & WHITNEY, Agents, - - - Portland

"The World's Best by Every Test."

BRADLEY'S COMPLETE FERTILIZERS

Supply the available plant food elements required, and they also help to overcome unfavorable conditions of weather and soil, maintaining an adjustment between the needs of the crop and the varying climatic conditions, which it is impossible for incomplete mixtures or single element materials to do.

Bradley's Complete Fertilizers promote early and continuous growth, bring maturity at proper time for harvesting, and **they keep up the balance of soil fertility.**

BRADLEY'S FERTILIZERS are compounded of the HIGHEST GRADE MATERIALS skillfully combined in proper proportions, carefully and thoroughly manufactured to a PERFECT MECHANICAL CONDITION.

A full stock of the following standard fertilizers constantly on hand:

Bradley's XL Superphosphate,

Bradley's Potato Manure,

Bradley's Potato Fertilizer,

Bradley's Eureka Seeding-down Manure,

Bradley's Corn Phosphate,

Bradley's Complete Manure for Top-dressing Grass and Grain,

Bradley's Complete Manure with 10% Potash,

Bradley's Complete Manure for Corn and Grain,

Bradley's Complete Manure for Potatoes and Vegetables.

Send for Bradley's Descriptive Booklet for 1913, containing interesting information to all farmers.

BRADLEY'S GRASS AND LAWN TOP DRESSING.

The best time to apply this fertilizer to grass land is just after the frost is out. The spring rains quickly dissolve it and wash the plant food within reach of the grass roots. When grass becomes run out it is best to plow the land, cultivate one season and then reseed, but when there is a good sod the yield of hay can be kept up for a long period by using this fertilizer as a top dressing.

It makes a lawn *more luxuriant* and obviates the necessity of offending the senses by applying stable manure to the home grounds.

It is sown broadcast like grass seed and at the rate of six hundred to eight hundred pounds per acre.

A QUICK-ACTING FERTILIZER FOR TOP DRESSING GRASS.

For top dressing mowing lands and lawns, for oats and for general application where it is desired to supply an unusual quantity of nitrogen in a quick-acting form, the one best fertilizer to use is three hundred to eight hundred pounds per acre of

THE A. A. C. CO.'S SPECIAL GRASS AND GARDEN MIXTURE.

The American Agricultural Chemical Company,
BRADLEY FERTILIZER WORKS,

92 State Street, Boston, Mass.

KENDALL & WHITNEY, Agents, - - - - - Portland

Chemicals and Fertilizers.

PRICES SUBJECT TO CHANGE.

	Per 100 lbs.	Per ton.		Per 100 lbs.	Per ton.
Dissolved Bone Black, 16 to 18 per cent. phosphoric acid,	\$1.50	\$27.00	Sulphate of Ammonia, 24 to 25 per cent.,	\$4.50	\$83.00
Muriate of Potash, 50 to 55 per cent.,	2.50	48.00	Kainit, 20 to 25 per cent., sulphate of potash,	1.00	15.00
Nitrate of Soda, 18 to 20 per cent.,	3.50	63.00	Dried Blood, 12 per cent. ammonia,	3.00	53.00
Sulphate of Potash, 48 to 50 per cent.,	3.00	56.00	Tankage, fine ground, 9 per cent. ammonia,	2.00	34.00
Acid Phosphate,	1.00	16.00			

PURE GROUND BONE.

4 to 5 per cent. ammonia, 21 to 23 per cent. phosphoric acid.

A valuable fertilizer, especially for lawns, vines and fruit trees. Per 100 lbs., \$2.00. Per ton, \$37.00

LAND PLASTER.

Price—Bag of 200 lbs., \$1.00; ton, \$ 9.50.
Bag of 100 lbs., .55; ton, 10.50.

ASHES.

Unbleached, hard wood ashes, put up in 100 lb. bags.
Especially valuable for lawns.

Per 100 lbs., \$1.00

SHEEP MANURE.

A pure, natural manure, and the most nutritious food for plants. Its effect is immediate and lasting; it is clean to handle, and is the best of all manures for mixing with the soil for greenhouse plants. As a lawn top-dressing it is unequalled. For mixing with soil, take one part of manure to six parts soil. For making a liquid, take one pound manure to five gallons of water, which can be used with safety daily, if necessary. Price, pkg. of 6 lbs., 25 cents; per 100 lbs., \$2.00.

AGRICULTURAL LIME.

Especially prepared for agricultural purposes, and, being finely ground, it can be used in any broadcaster. Many plants and all grains show a decided increase, and are greatly benefited by the use of lime, as it corrects all acidity of the soil, sweetening it, and freeing it from impurities.

HOW TO TEST THE SOIL FOR ACIDITY.—Take a little soil from the field and place it in a saucer, moisten it well with water and place in it a piece of blue litmus paper. If within twenty-four hours the litmus paper changes to a red color, the soil is acid and an application of lime should be added at the rate of from 1,000 to 2,000 pounds per acre.

For the ordinary piece of land that requires lime it will be found that once in the rotation of crops, or, say once in four years, is as often as lime should be applied, as it will hold the land in its proper condition for that length of time. Price, 100 lb. bags, 60c.; ton, \$10.00.

BORDEAUX LIME.

Prepared expressly for use in making Bordeaux Mixture; is finely powdered, and ready for immediate use. Price, 100 lb. bags, 85c.

BOWKER'S PLANT FOOD.

For Stimulating Growth and Rapidly Developing the Plant Organism.

15c. and 25c. per package.

HUBBARD'S BLOOD AND BONE FERTILIZERS ARE GREAT CROP GROWERS.

We offer the following brands:

	Amm.	Avail. Phos. Acid.	Potash.
Hubbard's Maine Potato Grower,	5.00 %	8.00 %	7.00 %
Hubbard's Aroostook Special,	4.50 "	7.00 "	10.00 "
Hubbard's Special Potato,	4.00 "	6.00 "	10.00 "
Hubbard's Blood, Bone and Potash,	4.00 "	8.00 "	7.00 "
Hubbard's 10% Potash Guano,	3.00 "	6.00 "	10.00 "
Hubbard's Royal Ensign,	3.00 "	8.00 "	4.00 "
Hubbard's Farmers' I. X. L.,	2.00 "	8.00 "	2.00 "



"STERLINGWORTH" SHEEP DIP.

A highly-concentrated, non-poisonous liquid for sheep-washing purposes—killing Ticks and Lice, curing Scab and promoting the growth of Wool and Flesh. Used also for Cattle, Horses, Pigs, Fowls, Dogs, etc. A protector of sown seed from Birds, Slugs and "Smut." Does not require heating nor any preparation—simply add cold water and it is ready for use. Easily applied and always effective.

Price: 1-qt. can, 50 cents; 2-qt. can, 75 cents; per gal., \$1.40.

Sterlingworth Whale Oil Soap and Tobacco



Is a compound of Fish Oils, the efficiency of which is greatly increased by the addition of tobacco extractive matter, is a most effective, reliable and cheap remedy for destroying San Jose scale, oyster shell scale, plant lice, and all sucking insects on trees, shrubs, plants, vines, rose bushes, etc. It is put up

in tightly sealed boxes, which conserves the strength of the soap almost indefinitely. Directions for use on every package. Price, 1 lb. box, 20 cts.

STERLINGWORTH WEED KILLER.

Sterlingworth Weed Killer is a most satisfactory and powerful weed killer, compounded especially for use on walks, drives, tennis courts, golf links, etc. It is a dry powder to be dissolved in water. When applied to vegetation it completely destroys all kinds of weeds, grass and other objectionable vegetable growths. It may be applied with an ordinary watering can. One gallon covers three to four square yards.



Price, 1 lb. package (makes 15 gals.), 50 cts.

"NICO-FUME" (LIQUID TOBACCO) INSECTICIDE. For fumigating greenhouses.

$\frac{1}{4}$ pint, 50c.; pint, \$1.50.

STERLINGWORTH PLANT TABLETS

A NEW INVIGORATOR FOR HOUSE PLANTS AND VEGETABLES

STERLINGWORTH PLANT TABLETS are a clean, odorless, concentrated, plant stimulant and invigorator. Their use promotes healthy, vigorous leaves and branches, and insures beautiful, luxuriant flowers. They build up the soil scientifically, and make frequent renewal of soil less important. The large amounts of waste matter in what is commonly known as "liquid manure," and "bone plant foods," which pollute the soil, and are many times accompanied by disagreeable odors, are absent in these excellent stimulating tablets. If you want luxuriant, healthy plants, ferns and beautiful flowers, these tablets are just what you are looking for.

PRICES: Large box (250 tablets) sufficient 35 plants 8 months, 50c postpaid medium, (100 tablets) sufficient for 35 plants 3 months, 25c postpaid; trial size, 10c.



STERLINGWORTH LAWN COMPOUND.

This preparation, when applied to weedy lawns, will adhere to the rough, hairy leaves of *dandelions*, *plantains*, etc., and, by absorbing all the sap, destroy them beyond recovery.

DIRECTIONS FOR USE.

Apply during bright, dry weather with a prospect of 24 to 48 hours settled weather. The grass should be cut previous to application. To dandelions and plantains, apply a heaped teaspoonful or more to each of the crowns, according to the size of the weeds. For chickweeds and moss, apply with the hand, distributing evenly about five ounces for every square yard. Gauge the quantity according to the number of weeds. Repeat the application if any escape the first dressing. The weeds soon wither and disappear. Apply in dry weather; the hotter the weather the quicker the weeds are killed. *Should the weather continue dry beyond 48 hours after application, the grass should be well watered.*



Price.

5 lb. package, \$.60
10 lb. package, 1.00

50 lb. package, \$4.00
100 lb. package, 7.50

"BUG DEATH."

The multiplication of insect pests and increase of fungous diseases place the question of spraying outside the line of debate. *It must be resorted to. It is the only salvation of the fruit, vegetable or crop producer. Spraying is a necessity for successful cropping.* There is one insecticide on the market, absolutely harmless to animal life, which will kill the bugs and insects, protect the life of the leaves and plants, increase the yield, insure highest quality and promote the vigor of the plant or tree.

Bug Death will do all this, for it is the only insecticide on the market which feeds and strengthens the leaves while destroying the pests which otherwise would destroy the crop, killing the potato, squash and cucumber bug, currant and tomato worm, and all other plant and vine-eating pests.



Pat. March 16 and Nov. 9, 1897.

DIRECTIONS FOR SPRAYING ONE ACRE OF POTATOES.

Fill a pail holding about 12 quarts, half full of water. Stir 15 to 25 pounds of Bug Death into this water. Fill sprayer tank nearly full with clear water, then pour Bug Death from bucket into tank and start machine at once, being sure that the agitator is working properly.

DIRECTIONS FOR SPRAYING ONE ACRE OF POTATOES WITH BUG DEATH AND BORDEAUX MIXTURE.

Dissolve 6 pounds copper sulphate (blue vitriol) in 6 gallons of water. Slack 6 pounds lump lime, slowly adding water as it slacks, being careful not to burn the lime. When thoroughly slacked strain it to remove any lumps before it goes into sprayer. When ready to spray, fill tank two-thirds full of clear water and add the 6 gallons blue vitriol water. Next put in 15 to 25 pounds Bug Death (first mix Bug Death in pail of water, same as under directions for using Bug Death alone). Fill tank almost full of clear water; lastly put in the lime water. Stir well and start machine at once, being sure that agitator is working properly.

The above solution, if properly applied, will prevent blight on potatoes, tomatoes, etc.

IF USED DRY

apply with Dickey Bug Death Duster or Acre-an-Hour Sifter at the rate of 15 to 25 pounds per acre, per application. Dust plant evenly and thoroughly. The more freely used the better the plant will thrive, as the increased yield and improved quality more than pays the expense. A perfectly sure, safe, effective insecticide.

1 pound package,	\$.15	5 pound package,	\$.50	100 pound keg,	\$6.50
3 pound package,	.35	12 1-2 pound package,	1.00		



DICKEY BUG DEATH DUSTER.

Price, - - - 25c.

Acre-an-Hour Sifter.

Price, - - - 60c.



ARSENATE OF LEAD.

The latest and one of the best known insecticides for leaf-eating insects, such as elm leaf beetle, gypsy and brown-tail moths, canker worm, codling moth, tent caterpillar and potato bug, as it adheres to the foliage for a long time.

On large trees, the best results are obtained by a nozzle giving a fine, mist-like spray. Spray until the leaves commence to drip, and then stop. Select a warm, dry day, so that the insecticide will have a chance to dry on the foliage.

PRICES.

1 pound package,	\$.20	10 pound keg,	\$1.60	50 pound keg,	\$ 6.50
2 pound package,	.38	25 pound keg,	3.75	100 pound keg,	12.00
5 pound package,	.90				

Price for larger quantities on application.

TRADE **FARMOGERM** MARK

Nitrogen Sacks upon the Roots of Cow Peas.

Increase the fertility of your land by adding nitrates. This result can be accomplished by planting legumes that have been inoculated with Farmogerm before sowing. Farmogerm comes in bottles ready for use. You can inoculate seed for ten acres in ten minutes. It is absolutely pure and will produce upon the roots of legumes the nitrate sacks or nodules, as shown in the accompanying illustration, thus putting in the ground over one thousand pounds of nitrates to the acre. We strongly advise Farmogerm inoculation whenever you plant legume seeds.

Seed and soil inoculations for garden peas, sweet peas, beans, clovers (all kinds), vetches, and cow peas.

PRICE.

Acre size, \$2.00 each; garden size, 50c. each.

In ordering be sure to state what legume (peas, beans or clovers, and which kinds) you wish to plant.

BOWKER'S PYROX.

(Registered U. S. Patent Office.)

One of the best and safest all-round sprays. Kills all leaf-eating insects, prevents blight and all fungous troubles, without injury to fruit or foliage. Equally good on fruit trees, potatoes, garden vegetables and shrubbery. It "sticks like paint", and rain "won't wash it off".

1 lb. (glass jar),	\$.25
5 lbs. (stone jar),	1.00
10 lbs. (stone jar),	1.75
25 lbs. (stone jar),	4.00
50 lbs. (keg),	7.50
100 lbs. (keg),	13.50
300 lbs. (keg),	38.00
500 lbs. (bbl.),	60.00

**BORDEAUX MIXTURE.**

Bordeaux Mixture is a preventive of Potato Blight, Potato Rot, Mildew, Leaf Blight of Shrubs and Fruit Trees, and, in fact, for all fungoid diseases. Apply as a fine spray to all parts of the plants liable to be affected.

One gallon makes fifty by the addition of cold water.

Price: "Sterlingworth", qt., 40 cts.; gal., \$1.00; in five-gal. cans, 80 cts. per gal.; in barrels of about fifty gal., 50 cts. per gal.

**TREE TANGLEFOOT.**

A safeguard for trees, shrubs, etc., against the gypsy moth, canker worm, and all climbing insect pests. It should be applied before the foliage appears, a continuous band two inches in width being put around the trunk of the trees, three or four feet from the ground. It is easily applied with a small wooden paddle. One pound will make a band seven to eight feet long. Perfectly harmless to the trunk and remains sticky during hot, cold, or wet weather.

PRICE:			
1 pound can,	\$.30	10 pound can,	\$2.65
3 " " " . . . . .	.85	20 " " "	4.80

"Sterlingworth" Concentrated Lime and Sulphur Wash.

Ready for use by simply adding water. No heating is necessary.

Lime and sulphur is a preventive of certain fungous diseases, as peach leaf-curl, ground and bitter rot, smuts, scabs, leaf spot, etc., and is used as a wash for the bark of the trunks of orchard and shade trees, where it acts as a repellent of many insect pests and prevents their ascending to the branches.

Lime and sulphur is also an insecticide of value when used against the caterpillar and canker worm, the larvæ of the codling moth and bud moth and other pests, that remain in a dormant state in the winter on the bark.

Prices: 1 gallon cans, 75 cents; 5 gallon cans, \$2.25; 10 gallon cans, \$4.00; 25 gallon kegs, \$6.50; 50 gallon barrels, \$10.00.



FOR FRUIT.

"LIME-SULFUR"

FOR POTATOES.

(Oil-Seal Brand.)

The standard spray. Destroys scale, mites, etc. Prevents disease. Insures clean, healthy crops and increased yields.

"CLEAN FRUIT BRINGS THE MONEY."

As a dormant spray use 5 gallons per barrel (1: 9). As a fungicide use $1\frac{1}{2}$ gallons per barrel (1: 32). For a complete spray use $1\frac{1}{2}$ gallons "Lime-Sulfur" and 2 to 3 pounds Lead Arsenate per 50 gallons spray.

"LIME-SULFUR" IS SUPERIOR TO BORDEAUX MIXTURE.**PRICES.**

1 gallon, 75c.; 5 gallons, \$2.00; 10 gallons, \$3.50; 1-2 barrel, \$6.00; 1 barrel, \$10.00.

Manufactured under skilled chemical supervision by

THOS. LEYLAND & CO., Boston.

KENDALL & WHITNEY, . . . Distributors for Western Maine.

APHINE—The Insecticide that Kills Plant Lice of Every Species.**The Recognized Standard Insecticide.**

Not a cure-all, but a specific remedy for all sap-sucking insects infesting plant life, such as green, black, or white fly, thrips, red spider, mealy bug and soft scales.

PRICES.

1-4 pint, 25c.; 1-2 pint, 40c.; 1 pint, 65c.; 1 quart, \$1.00; 1 gallon, \$2.50.

INSECTICIDES.

Fir-Tree Oil.—Price, $\frac{1}{2}$ pint, 40c.; pint, 75c.

Hellebore.—Price, $\frac{1}{2}$ lb. pkg., 15c.; 1 lb. pkg., 25c.

Paris Green.—Price, 30c. per lb.

Sulphur, Powdered.—Price, 8c. per lb.; 10 lb. pkg., 60c.

Tobacco Dust.—Price, 10c. per lb.; 5 lb. pkg., 30c.

Tobacco Stems.—Price, \$1.50 per 100 lbs.

Sulpho-Tobacco Soap.—Price, 3-oz. cake, 10c.; 8-oz. cake, 25c.

"STERLINGWORTH" KEROSENE EMULSION.

A valuable remedy against scale, plant lice, etc.

Price: Pint can, 25c.; 1 quart can, 40c.; 1 gallon can, \$1.00.

**EUREKA FLY KILLER.**

Will protect horses and cattle from the annoyance of flies, insects and vermin of all kinds. A much greater flow of milk obtained from cows kept free from the torment of flies.

As a disinfectant it will keep animals healthy.

Applied to the walls and ceilings of stables, where there are myriads of flies, they leave instantly.

Apply with any of our atomizers or sprayers.

Price, per gallon, 75 cents.

**Brown's Acme Cattle Oil.**

Protects cattle and horses from flies. A sure and harmless preventive, easily applied with a sprayer.

Price, per quart can, 25c.; gallon, 75c.

Barrels of 50 gallons. Price on application.

STANDARD FLOWER POTS.

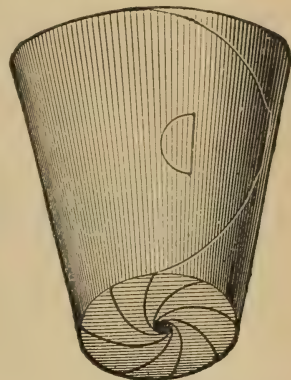


Inches.	Pots. Per dozen.	Saucers. Per dozen.
2	\$.10	
2½	.12	
3	.15	\$.12
3½	.20	.15
4	.25	.18
5	.40	.24
6	.60	.32
7	.90	.45
8	1.25	.60
9	1.75	.75
10	3.00	.95
11	3.50	1.10
12	5.00	1.35
14	9.00	2.25

Measurement from inside to inside. Width and depth equal.

NEPONSET PAPER FLOWER POTS.

Manufactured from fabric which gives them all the necessary rigidity. They are unbreakable and give ample drainage.



Size.	Per 100.	Per 1,000.
2¼	\$.30	\$ 2.40
2½	.35	2.80
3	.40	3.85
3½	.60	5.25
4	.75	6.60
5	1.25	11.00
6	1.65	14.70

Round Seed and Bulb Pans.

Inches.	Each.	Per doz.
6	\$.07	\$.72
7	.08	.85
8	.10	.96

Inches.	Each.	Per doz.
9	\$.13	\$ 1.35
10	.18	1.60
12	.30	3.50

Special quotation to florists.

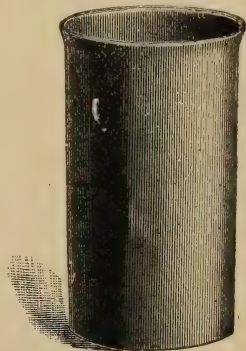
FLORISTS' VASES.

FOR DISPLAYING CUT FLOWERS.

No.	0	8 inches in diameter,	13 inches deep	\$.55 each.
1	5½			.50
2	4½			.45
3	4			.35
4	3			.25
000	9			2.35
00	9			1.85
01	7			1.00
11	5½			.50
22	4½			.45
33	4			.40
44	3			.35

FIBRE FLOWER POT SAUCERS.

No moisture passes through to injure table, floor or carpet.



TRELLISES.

No.	00, 18-in. stick, 3½ in. wide	Each.	Per doz.
00	wide, 20-in. stick, 8 in. wide	.10	1.25
0	24-in. stick, 5 in. wide	.10	1.25
0	wide, 24-in. stick, 8 in. wide	.12	1.50

BOW TRELLIS.

No.	0½, 24x7½ in.	Each.	Per doz.
1	30x10 in.	.30	3.00
2	30x14 in.	.40	4.50
3	36x12 in.	.45	5.25
3½	42x14 in.	.50	6.00
4	48x15 in.	.70	7.00
5	60x18 in.	.95	8.50
6	72x20 in.	1.10	10.00

CROSS TRELLIS.

24x15 in.	Each.	Per doz.
24x15 in.	\$.45	\$ 5.00
42x24 in.	.50	6.00



Veranda Trellis.

16-in. diameter	Each.	Per doz.
20-in. "	\$.55	\$ 6.50
24-in. "	.85	10.00

FAN TRELLIS.

1½ ft.	Each.	Per doz.
2 ft.	.15	1.50
2½ ft.	.20	2.00

VERANDA TRELLIS.

2 ft.	Each.
3 ft.	\$ 0.35
4 ft.	.50
5x1½ ft.	.60
6x1½ ft.	.75
7x1½ ft.	.95
8x1½ ft.	1.10
9x1½ ft.	1.25
10x1½ ft.	1.50
11x2 ft.	1.75
12x2 ft.	2.00
	2.25
	2.50

PLANT STICKS.

From one and one-half to six feet in length, used for supporting single stalks of roses, dahlias, etc.

1½ feet, painted green	Per doz.	Per 100.
2	\$.20	\$ 1.12
2½	.25	1.75
3	.35	2.50
4	.50	4.00
5	.70	5.50
6	.95	7.50
	1.20	9.50

WOOD POT LABELS.

4 inch	PLAIN.	PAINTED.
4½ inch	Per 1,000. \$.50	Per 1,000. \$.70
5 inch	.60	.80
6 inch	.70	.95
	.90	1.20

WOOD TREE LABELS.

3½ inch (copper wire), painted	Each.
	\$ 1.20

BOUQUET HOLDERS.

No. 1, Small, iron	20 cents
No. 2, Medium, iron.....	25 cents
No. 3, Large, iron.....	30 cents
Medium, stone.....	20 cents

**FOLDING LAWN SETTEE.**

Made from hard wood and finished in varnish and vermillion.

Price, \$1.00.

CROQUET.

We carry a complete assortment, manufactured from selected hard wood, handsomely painted and varnished.

90 cents to \$4.00 per set.

**"IRON AGE"
HORTICULTURAL
ROW INDEX.**

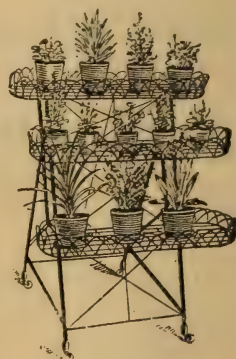
Made of galvanized iron, the label protected by sheet of mica. Will be found indispensable for private gardens, trial grounds, greenhouses, parks, etc.

Price, 18 inch, 15c. each.

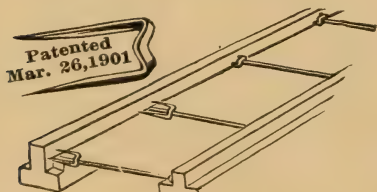
" per dozen, \$1.50.

**WIRE
PLANT
STANDS.**

1 shelf, folding,	\$1.75
2 " "	2.50
3 " "	3.25
4 " "	4.00

**TROWBRIDGE'S GRAFTING WAX.**

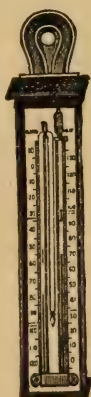
The finest quality made, put up in neat packages with directions for use. 25c. per lb.; ½ lb. packages, 15c.; ¼ lb. packages, 10c. By mail, 5c. per lb. extra. **Beeswax**, 40c. per lb. By mail, 5c. per lb. extra.

"Peerless" Glazing Points.

Made from galvanized steel wire; are cheap and indestructible. Easy to apply and perfectly satisfactory to use. Per 1,000, 60 cts.; by mail, 65 cts.

Self-Registering Thermometer.

Registers accurately the coldest, also the warmest point of temperature. \$3.25 each.



Self-Registering
Thermometer.

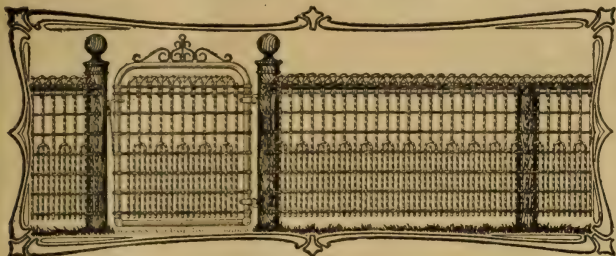
Hot Bed Mats. Best rye straw, 6 x 6 ft., \$1.50 each.

Tinfoil. For bouquets. Lb., 12 cts.

Twine, Soft. For tying vines, etc.; very strong. Large balls, 15 cts.

Tarred Yarn. Low priced material for raspberries, shrubs, etc. Lb., 12 cts.

CYCLONE ORNAMENTAL LAWN FENCE.

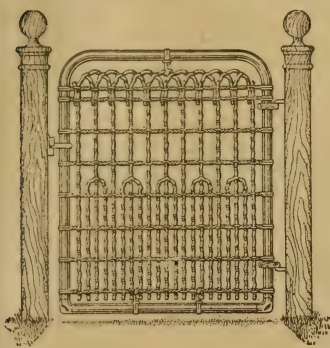


A popular, attractive and inexpensive ornamental fence for residences, front lawns, division fences, back yards, as well as for churches, parks and cemeteries. Pickets are of No. 9 heavily galvanized steel wire spaced $2\frac{1}{2}$ inches apart at top and $1\frac{3}{8}$ inches apart at bottom. This gives an extremely close-mesh, chicken-tight fence at a most reasonable price.

Best heights are 36, 42 and 48 inches. Other heights made to order.

Price per lineal foot, "F", fabric only, 36 inches high, 12c.; 42 inches high, 13c.
Gate to match this fence, 3-foot opening. \$2.50.

Cyclone Universal Walk Gate.



Suitable for the most particular home and at a price so low that no home can afford to be without one.

Frame is of high-carbon tubular steel $1\frac{1}{8}$ inches in diameter.

Gate comes complete with all malleable fittings ready to hang to post. Either 36, 42 or 48 inches high.

PRICE.

Either height, 3-foot opening, \$2.25 each.

Flower and Vine Trellis.

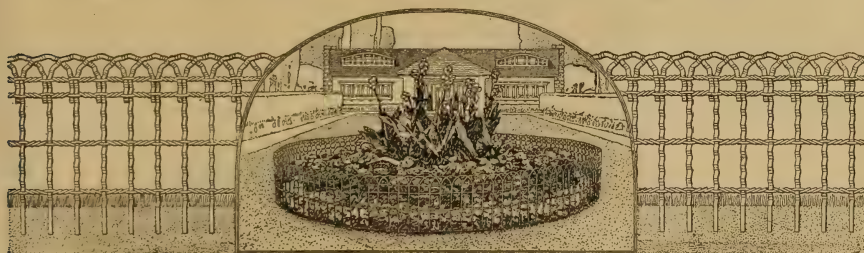
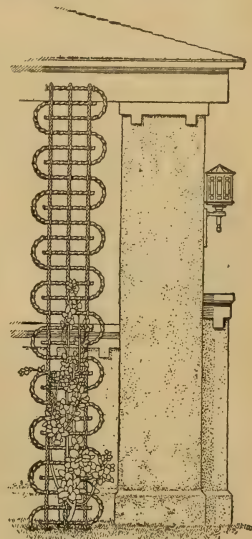
Just the thing for climbing plants and flowers.

Crimped wires are No. 10 and cable No. 13, heavily galvanized.

A perfect vine climber that adds greatly to the appearance of the home.

PRICE.

Per foot, 16-in., 7c.



Perfection Flower Border.

Fits any form or shape of flower bed. No posts are required; the picket ends are left straight for inserting in the ground.

Pickets are of No. 9, cables of No. 13, heavily galvanized wire. Made in two heights, 16 and 22 inches.

PRICE.

Per lineal foot, 16-in.,	.	.	7c.
Per lineal foot, 22-in.,	.	.	8c.

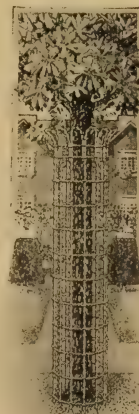
Cyclone Tree Guard.

Six feet high made of heavily galvanized wire in 9, 12 and 15-inch diameters.

Set up in a minute by claspings the hooked ends.

PRICE.

9 inches in diameter, 85c. each.



TOMATO AND PLANT SUPPORT.

Designed especially to protect tomatoes,
peonies, small shrubs, and
tall growing plants.



BARTLETT.

THE BARTLETT.

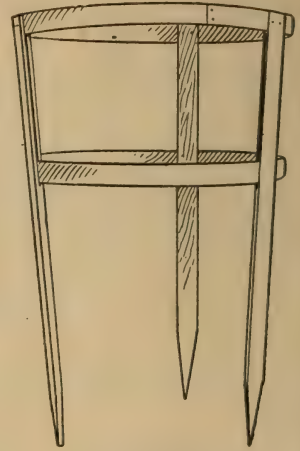
MADE FROM HARD WOOD, WITH WIRE HOOPS.

Price, 20 cents each; \$1.75 per dozen.

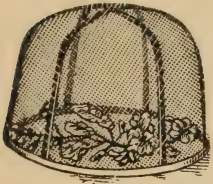
THE BRYANT.

MADE OF HARD WOOD STANDARDS AND WOOD
HOOPS.

Price, 15 cents each; \$1.50 per dozen.



BRYANT.



ARLINGTON PLANT PROTECTOR.

Price, 15 cents each; \$1.50 per dozen.

HOT-BED SASH.



The **Slanting Top Sash with Double Glass** is the secret of success. It lets the light and heat in; it keeps the cold out. The air between the two layers of glass, spaced apart, protects from extreme heat and extreme cold. The sash is strong and durable, in sizes as listed below.

low, and light enough to be easily handled. Since no putty is used, it takes only a moment to slip in new glass to replace a broken pane. The smallest size fits over an ordinary bushel box, size 18x18 inches.

No. 1, small size, 19x21 inches,.....	\$2.00 each
No. 2, large size, 19x42 inches,.....	\$3.25 "
No. 3, extra large, 19x63 inches,.....	\$4.25 "

GRAFTING CHISEL.



Price, 60c. each.

Hazeltine Weeder.



Price, 25 cents each.


EXCELSIOR WEEDER.



This instrument will work well among rows of seedlings and ornamental plants, or in any place where freedom from weeds is desired.

Price, 10c. each; by mail, 15c.

SHEEP SHEARS.

True Vermonter, 5½ inch,	\$.85	
" " 6 "	1.00	

Sheep shears, for trimming grass, 25 to 50 cents.
Lightning shears, for trimming grass, 40 cents.

DOUBLE-EDGED PRUNING SAWS.

For use with or without pole. The lightning edge teeth are for cutting the limbs and the back teeth are for cutting off the twigs.

18 inch, 85 cents each; 20 inch, 95 cents each.

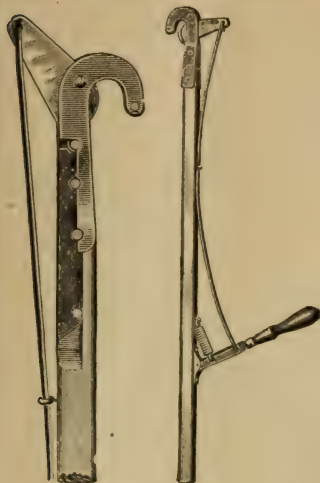
STANDARD TREE PRUNER.

Is the lightest device made for the purpose.

Will cut as large wood as any other device that is practical to handle.
Will clip the slightest twig on the extreme end of the limb.

Prices.

8 feet.....	\$.85	14 feet.....	\$1.10
10 feet.....	.90	16 feet.....	1.15
12 feet.....	1.00	Extra blades.....	.20



Standard.

Prices.

(Either style pruner.)

6 feet.....	\$1.50 each
8 feet.....	1.75 each
10 feet.....	2.00 each
16 feet (Detroit only),	2.50 each



Detroit.

HAPPY THOUGHT and DETROIT PRUNERS.

The **Happy Thought Knife** will cut a limb three-quarters of an inch in diameter, the **Detroit Knife**, a limb one inch in diameter, doing the work easily because of the great leverage and the same drawing cut that is an important factor in all of our pruning knives.

These knives are made in three lengths, 6, 8 and 10 feet, and of the best material that can be produced for the purpose. The blades are of high carbon crucible steel, tempered in lead and drawn in oil.



Happy Thought.

Kansas Pruning Knife.

Where the Kansas Pruning Knife has been introduced it has revolutionized tree pruning, on account of the speed and ease with which it can be done.

On heavy limbs or cutting any limb close to the body of the tree the knife works automatically—no levers to operate by hand—just put the hook over the limb and give a quick, straight pull on the handle. For cutting small outer swinging branches, attach a strong cord to the sliding sleeve, put the hook over the branch to be cut, and pull on the cord. It will cut any green limb, from the very smallest to one that is one and one-quarter inches in diameter, and any length handle can be used, giving the great advantage of standing on the ground to do the work, and doing it properly.

Price, \$3.00 each.



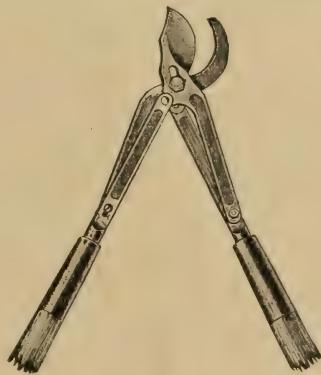
ROCKDALE PRUNER.



Price.

No. 35, 26 in. long,	\$.75
No. 38, 41 in. long,	1.00

Orchard King Pruning Knife.



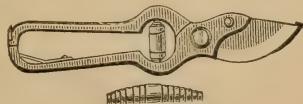
A pruning shear made with compound levers and so constructed that it will do its work with one-third or one-fourth the effort or power required on the ordinary shear.

Price, \$3.00 each.



PRUNING SHEARS.

American,	35c. and 50c.
French wheel spring, 8 in.,	\$1.25
" " " 9 in.,	1.50
" " " 10 in.,	1.75



HEDGE SHEARS.

8 inch.....	\$1.25
9 inch.....	1.35
10 inch.....	1.75



PRUNING AND BUDDING KNIVES.

50 cents to \$1.00 each.

BORDER SHEARS.

With Long Handle.

8 inch.....	\$1.75
9 inch.....	2.00
10 inch.....	2.50

With wheel, 50 cents extra.

PENNSYLVANIA

Quality

LAWN MOWERS.

By "Pennsylvania Quality" is meant absolutely the best that can be put into lawn mower construction. All blades are crucible tool steel, oil tempered and hardened, and all castings are reamed and machined to fit perfectly, insuring easy cutting and long life.

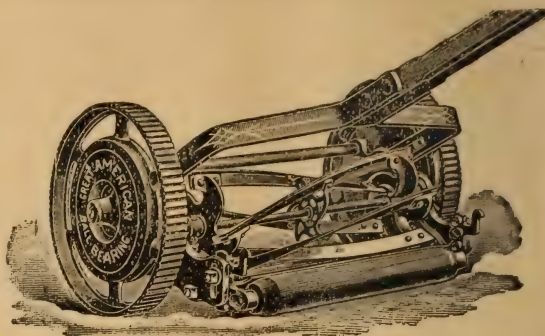
Great American Ball Bearing.

This machine is one of the most popular of the line, and consequently is more imitated than any other lawn mower manufactured. **Raised edge, self-sharpening** lower knife, highest grade ball bearings, smooth running, are special features.

10-inch driving wheels.

5 blades.

Sizes.	Prices.
15 inch	\$ 9.50
17 "	10.50
19 "	11.50
21 "	12.50



Pennsylvania Junior Ball Bearing.

The highest grade lawn mower made. A train of three gears on each side, drive the 5 blade cylinder, insuring easy running. **Raised edge, self-sharpening** lower knife.

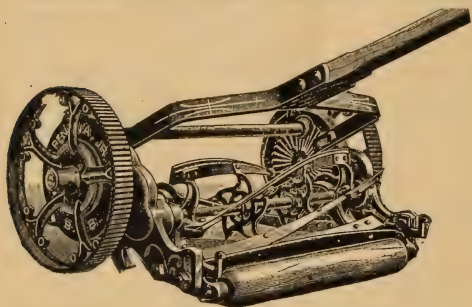
Made in both low and high wheel size.

5 blades.

8-inch wheels.

10-inch wheels.

Sizes.	Prices.	Sizes.	Prices.
14 inch	\$ 9.50	15 inch	\$13.00
16 "	10.50	17 "	14.50
18 "	11.50	19 "	16.00

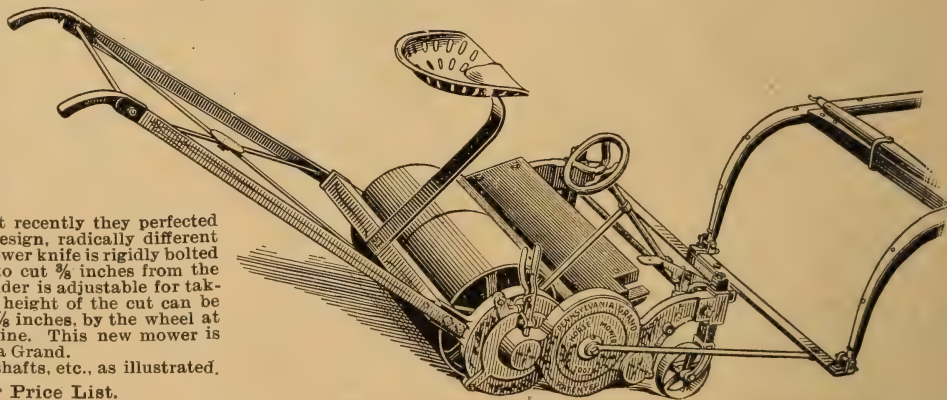


Pennsylvania Grand Horse Mower.

Any product of the Pennsylvania factory insures it being of the highest quality, both in material and workmanship. Until a few seasons ago the factory made only one style of horse mower, that with the lower knife adjustable to the revolving cylinder, similar to the majority of other horse and hand mowers, but recently they perfected and patented a new design, radically different from all others. The lower knife is rigidly bolted to the frame, and set to cut $\frac{3}{8}$ inches from the ground, while the cylinder is adjustable for taking up the wear. The height of the cut can be regulated from $\frac{3}{8}$ to $2\frac{1}{2}$ inches, by the wheel at the right of the machine. This new mower is called the Pennsylvania Grand.

(Complete with seat, shafts, etc., as illustrated.

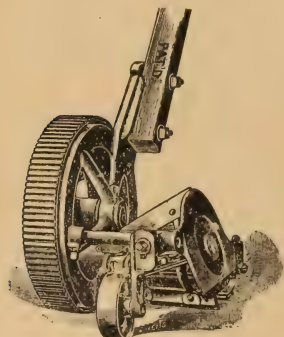
Write for Price List.

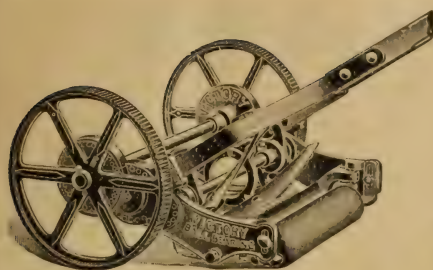


Pennsylvania B. B. Under Cut Trimmer.

This machine is the only one to successfully replace the use of hand shears. The slanting side plate and conical cylinder make it possible to cut all the grass left by the regular style of lawn mower. The unique construction of the **Under Cut Trimmer** permits cutting, not only close up to a wall, fence, trees, etc., but it will get the grass **under** a fence or rock-cut base of tombstones, house foundations, and other places hitherto out of reach of anything but hand shears. For cemeteries it has the special advantages of not **marking** or **smudging** the stones, as the side plate does not come in contact with the stone above the grass line.

Price, \$7.50.





TOWNSEND'S "VICTORY" LAWN MOWER.

Constructed with ball bearings, of the very highest grade. Triple gear, entirely closed, and a removable cutter bar, which, by loosening four small screws, may be rolled out of the machine for sharpening without disturbing the frame.

Width of cut:	14-in.	16-in.	18-in.	20-in.	22-in.	24-in.
Net price:	\$8.00	\$9.00	\$9.50	\$10.00	\$11.00	\$12.00

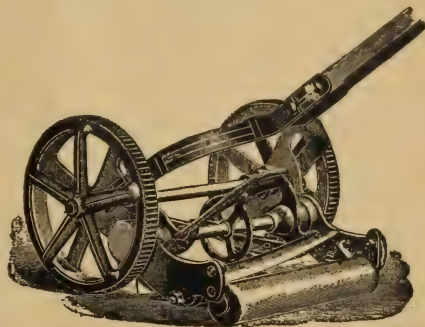
TOWNSEND'S "SPIDER" LAWN MOWER.

Like the Victory, the "Spider" runs and cuts with ease and rapidity.

It is light, strong, and finely made and adjusted, and is one of the best *medium priced* lawn mowers ever offered.

Is ball bearing, has nine-inch wheels, four-bladed open wiper, and a simple and easy adjustment.

Width of cut:	12-in.	14-in.	16-in.	18-in.	20-in.
Net price:	\$6.00	\$7.00	\$7.50	\$8.00	\$8.50



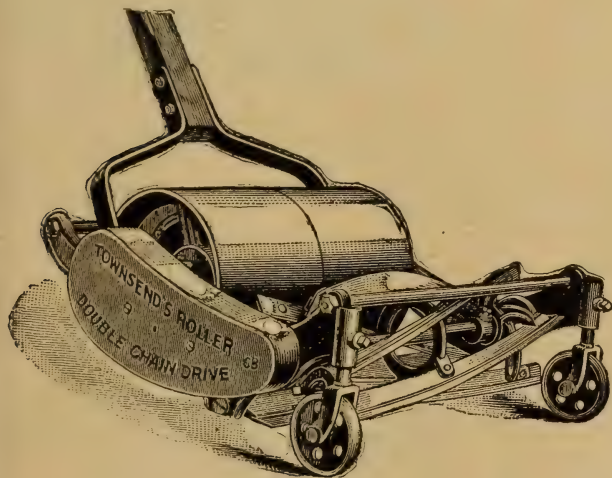
Townsend's Chain Roller Mower.

Designed for Borders and Golf Greens.

Ball bearings of the very highest grade, double driving rolls, eight inches in diameter, sextuple ratchet, almost silent and indestructible, chain drive, light, strong, quiet and easy, and *completely shielded*.

This mower will cut close enough and clean enough to satisfy the most fastidious golfer, and it will run easier and will stay in perfect order longer than any other golf mower.

Sizes:	12-in.	14-in.	16-in.	18-in.
Prices:	\$11.50	\$13.00	\$14.00	\$15.00



THE TOWNSEND

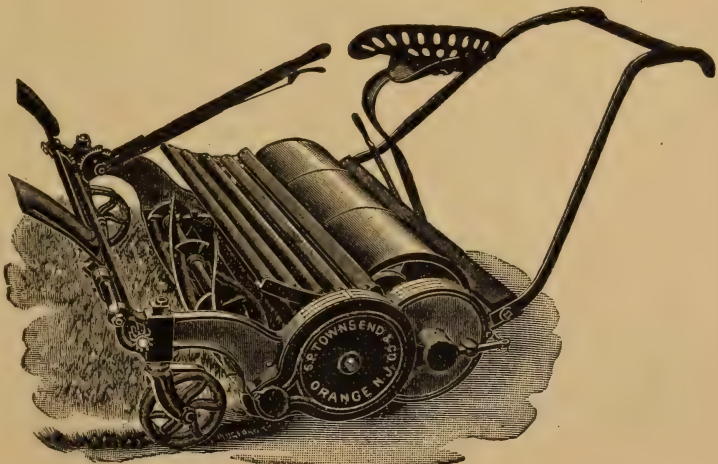
Horse Lawn Mower.

The Townsend Mower has triple rolls, with triple pawls in each roll, making a most powerful and instantaneous driving mechanism. Unlike other mowers, the motion of the blades is maintained even when turning sharp corners. The self-aligning journal boxes will be found in this mower only, and prevent cramping, a very common fault in Horse Lawn Mowers.

All machines are fitted complete with tool-box, seat, handles, shafts, and slide-bar attachment, which keeps the horse on the cut grass.

Width of cut, 30 in., 35 in., 38 in.

Write for Price List.



FEDERAL LAWN MOWER.

8-inch Wheels.

—The Combined Points are—

PRICE, SIMPLICITY, DURABILITY, UTILITY.

Width of Cut.	Net Price.	Width of Cut.	Net Price.
12 inch.....	\$3.00	16 inch.....	\$3.00
14 inch.....	3.00	18 inch.....	3.25

PHILADELPHIA LAWN MOWER.

STYLE A.

Large, open wiper, 10-inch wheel, train of three gears, and many other special advantages.

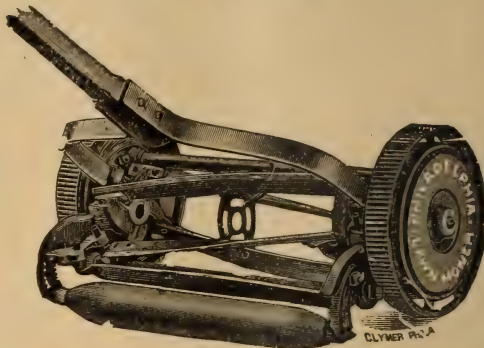
STYLE C.

Has all the improvements, with four blades, open cylinder, and 8½-inch driving wheel.

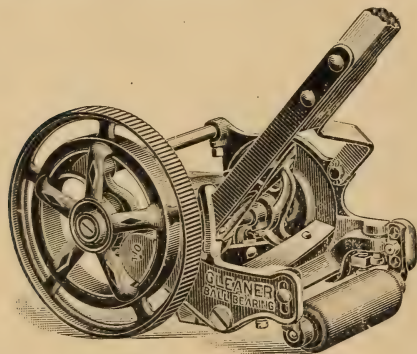
STYLE K.

Open wiper, 10-inch wheel; five knives, insuring a fine cut.

Write for quotations.



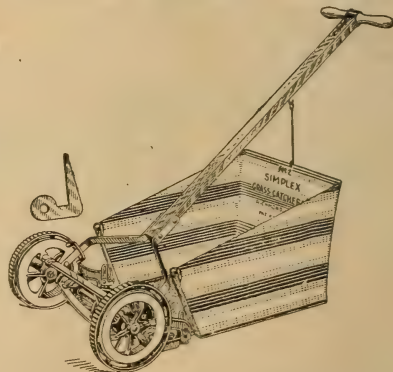
TOWNSEND'S "GLEANER" LAWN TRIMMER.



Does what lawn mowers leave undone. Trims and edges the lawn with remarkable speed and perfection. 9-inch wheel, ball-bearing; 4 steel blades, 8-inch cut. Strictly high grade in every particular.

Price, \$5.00.

"Simplex" Grass Catchers.



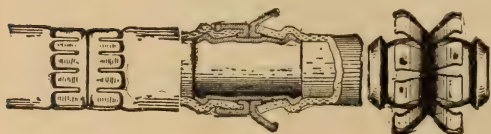
Will fit any mower made. Instantly attached and detached. Canvas body, galvanized iron bottom, combining strength with lightness.

No. 1 for 12, 14 and 16-inch mowers.

No. 2 for 16, 18 and 20-inch mowers.

Price, \$1.25 each.

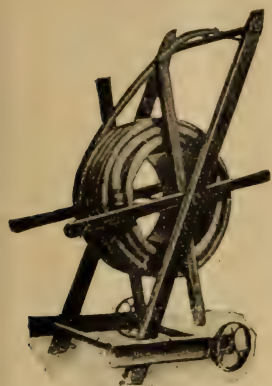
PERFECT HOSE MENDER.



A one-piece article of solid brass, made of very best quality of material, with tube and clamps stamped out in one piece, making a continuous tube. All that is needed is a hammer to bend down the clamps on the hose to make a perfect mend. The mend is neat, smooth, durable and absolutely water-tight.

Made for both ½-inch and ¾-inch hose.

Price, 10 cents each.



HOSE REELS.

Made from hard wood or with steel frame. Strong, well bolted together, and durable.

Price from 75c. to \$2.50.



GARDEN AND LAWN HOSE.

High Grade Rubber and Cotton Hose.

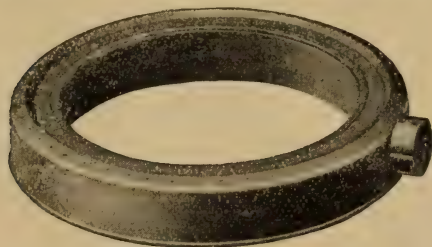
THE "SHOWER" LAWN SPRINKLER.

This sprinkler, with ordinary pressure, distributes water over a diameter of about twenty-five feet, the water descending in the form of light, natural rain. Will not clog or corrode, and is practically indestructible.

No. 3, price, \$1.50.
No. 3, complete with stand, price, \$2.00.



FOUNTAIN LAWN SPRINKLER.

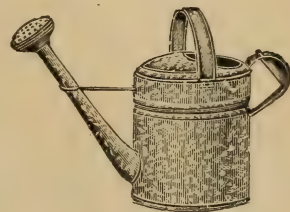


Made of brass. Easily moved over the lawn without turning off the water.

Price, 50 cents.

WATER SPRINKLER.

1 qt. painted tin, \$	.20
2 " " "	.25
4 " " "	.35
6 " " "	.40
8 " " "	.50
10 " " "	.60
12 " " "	.70
4 " galv. iron, "	.45
6 " " "	.50
8 " " "	.60
10 " " "	.70
12 " " "	.75
16 " " "	1.00
20 " " "	1.25



All our sprinklers are made with movable heads, which unscrew with an eighth turn. The screw is of zinc and will not rust.

PARLOR SPRINKLERS (with long nose).

1 quart, painted tin..... 45c. 2 quart, painted tin.....50c. 3 quart, painted tin.....60c

Tyrian Plant Sprinklers.

STRAIGHT NECK.

BENT NECK.

½ pint size.....	\$.65	½ pint size.....	\$.75
¾ " " .....	.75	¾ " " .....	.85
1 " " .....	.90	1 " "	1.00

If sent by mail, 5 cents each, extra.





THE GIBBS LAWN RAKE.

A perfect implement for cleaning lawns from leaves, grass and all kinds of rubbish without injuring the grass and roots.

Price, each, 40 cents.

GRASS HOOKS.

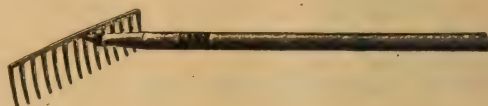
All sizes. All kinds.

Prices, 25 cents to 50 cents each.

FLORAL TOOLS IN SETS.

From 10 cents to \$1.00 per set.

CAST STEEL GARDEN RAKES.



10 teeth.....	Price, 45 cents
12 ".....	" 50 "
14 ".....	" 55 "
16 ".....	" 60 "
18 ".....	" 70 "



GARDEN REELS.

No. 1, - 50 cents.

No. 2, - 75 cents.

GARDEN LINES.

100 feet long. 50 cents each.

Cast Steel Garden Trowels.



Price, 10 cents.

6 inch extra solid steel blade and shank,	40 cents
7 " " " " " " " "	45 cents

Wire Fruit Picker.



Price, 25 cents each.

Border Knife.



9 inches, 60 cents each.

Eureka Fumigators.

FOR FUMIGATING WITH TOBACCO STEMS.



No. 1, 12 inches high,	\$1.50
" 2, 16 " "	2.00
" 3, 20 " "	2.50

BOSTON HOSE NOZZLE.



Price, 40 cents each.

NATURAL COLORED RAFFIA.

The best material for tying plants; very soft, strong and pliable. **Fine, long, selected raffia for fancy work. 20 cts. per pound.**

NORCROSS HAND GARDEN CULTIVATOR. AND WHEEL PLOW ATTACHMENT.



5-Prong Cultivator-Hoe.



3-Prong Cultivator-Hoe.



Midget Weeder.

Price, 5-prong, 75c.; 3-prong, 50c.; Midget, 25c.

Material, workmanship and finish is of the highest quality. Prongs are one-fourth inch square spring steel, bent cornerwise for strength, and attached to malleable head with (4) bolts standard size. Metal parts painted glossy black, except shovels are silver bronzed. Handle is finest quality white ash, waxed, and is four feet in length. Works between rows or center shovel can be removed and rows straddled. Loosening nuts releases any one or more prongs without removing bolts. Pulls weeds, pulverizes the soil thoroughly, giving level cultivation. It is light, very durable, easy to handle and does most excellent work. It can be quickly attached to wheel plow if desired.

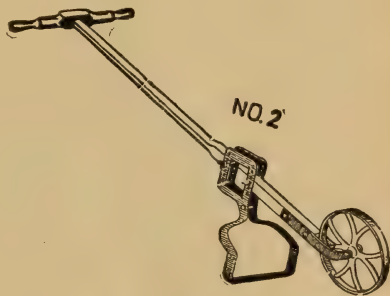
The 3-prong Cultivator-Hoe is a modification in size, weight and price of the 5-prong tool, as represented by the accompanying cut. It has the same length handle (of lighter size), but has three prongs instead of five. The prongs are detachable in the same manner and the quality and finish is the same high grade.

The Midget is constructed along the same lines as the 3 and 5-prong Cultivator-Hoes. It has a nine-inch handle and is designed for use in flowers, small shrubbery, etc., or for cultivating vegetables where a long handle tool would be less practical. Excellent in strawberries and low-growing plants where tedious hand cultivation is required.

Fuller's Unique Wheel Hoes.

Superior to all hand tools made, to cultivate between rows. The handles are adjustable to any height. Having only one wheel they run between the rows without bruising the tops, and having no frame work they do not tear the growing plants on either side.

Price, \$2.50.



Fuller's Daisy Hand Weeder.

A light and easy-working weeder. Excellent for general weeding purposes, doing the work easier and quicker than by ordinary methods.

Price, 25c.; by mail, 35c.

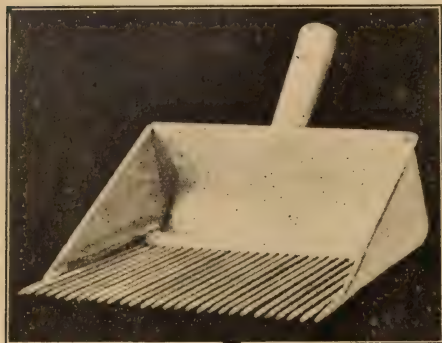


The Eureka Seed Drill.

For Kitchen Garden and Hot-Bed.

Will sow and cover beets, cabbages, carrots, celery, lettuce, onions, radishes, spinach, turnips, etc.

Price, \$1.25.



BLUEBERRY PICKER.

The picker is made from the best quality of heavy tin, and fitted with points made from highest tempered steel spring wire. These points are thoroughly soldered, making a very substantial and convenient picker.

Made in the following sizes:

Price, 18 point,	-	-	-	-	\$1.25 each.
" 20 "	-	-	-	-	1.35 "
" 24 "	-	-	-	-	1.65 "
" 26 "	-	-	-	-	1.85 "
" 28 "	-	-	-	-	2.00 "
" 30 "	-	-	-	-	2.15 "

Arlington Scuffle Hoes. 8-inch and 9-inch blade. Each \$1.50.



Arlington Scuffle Hoe.

Dutch Hoe.

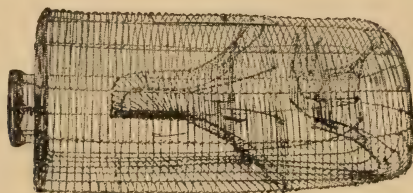


Price, 50 cents.

Tin Mouse Trap.



10c.

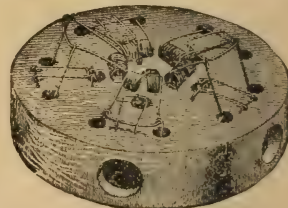


WIRE RAT AND MOUSE TRAPS.

The most effective Wire Trap ever produced.

Price—No. 1, 75c.; No. 3, 1-2, 40c.; Mouse, 25c.

Round Wood Mouse Trap.



10c.

BERRY BASKETS.



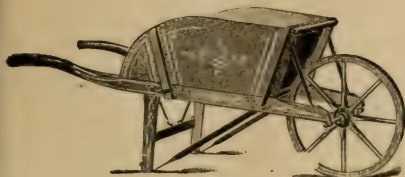
Oblong Pint.



Quart.

Our berry baskets are made of best quality clear wood and put up in good strong crates. Packed 1,000 in a crate. Write for prices.

WHEELBARROWS.



GARDEN BARROW.

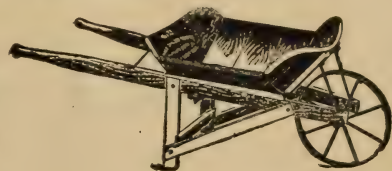
No. 2. K. & W. Garden Barrow	\$3.00
No. 3. " " "	3.25
No. 4. " " "	3.50
No. 5. " " "	3.75
No. 6. " " "	4.25
No. 4. Custom Made. Strongly ironed and heavily braced	3.75
No. 5. " " " " " " " "	4.25
No. 6. " " " " " " " "	4.75
Lawn or Stable Barrow. Extra size (box being 32 in. x 25 in. x 18 in.)	9.00

CANAL BARROWS.



STEEL TUBULAR CANAL BARROW.

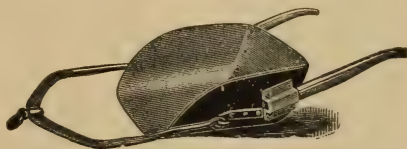
Wood Tray, \$1.75 to \$2.25
 Steel Tray, No. 12, 3.75
 All Steel, No. 80A, 6.50



CANAL BARROW.

STEEL ROAD SCRAPERS.

No. 0. Price	\$8.25
No. 1. "	6.00
No. 2. "	5.75
No. 3. "	5.50



CAST IRON HEAD FOR DRAG.

This illustration shows a simple device whereby a drag can be readily made by using STRAIGHT plank.

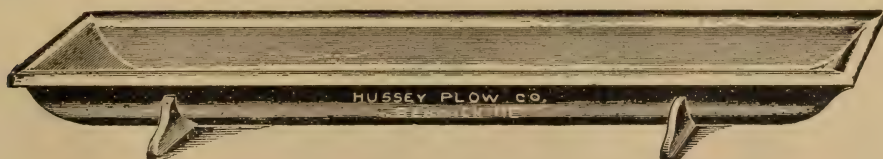
Price, \$3.00

We also furnish the drag complete as shown below.

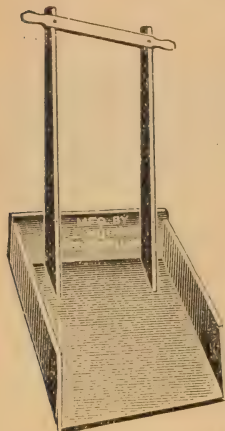
Price, \$7.00



CAST IRON HOG TROUGHS.



Prices upon Application.



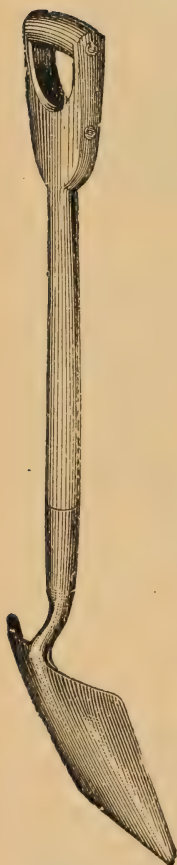
THE HOOPER SNOW SHOVELS.

For Railroad Crossings and Plat-
forms, Ice Ponds, Mill Yards, Flat
Roofs, Concrete Walks and Gen-
eral Shoveling.

Price, 2 feet,						\$2.50
" 2 "	6 inches,					3.00
" 2 "	9 "					3.25

Steel Shovels, Spades, Scoops, Hoes, Forks and Rakes.

Complete Assortment of all Garden Tools
constantly on hand.



Maynard's Solid
Steel Socket
Shovels and Spades.



Post
Spoon.



Long Handle
Square Point
Shovel.



Long Handle
Round Point
Shovel.



D Handle Square Point Shovel.



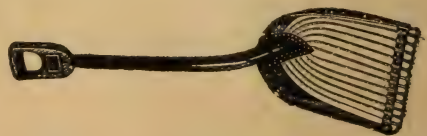
D Handle Round Point Shovel.



D Handle Spade

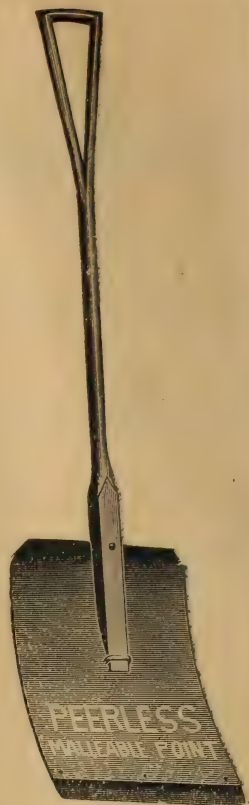


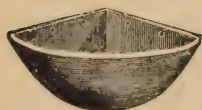
Solid Steel Scoop.



Wire Potato Scoop.

Wooden
and
Steel
Snow
Shovels.





Corner Manger.



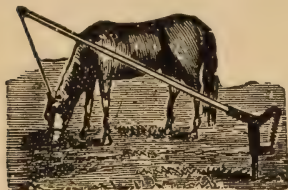
Feed Racks.



IRON CORNER FEED RACKS AND MANGERS.

WRITE FOR PRICES.

ANIMAL TETHER.



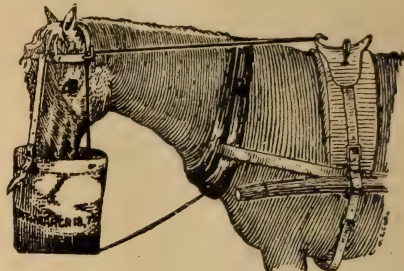
Price, \$3.00 each.

FEED BAGS.

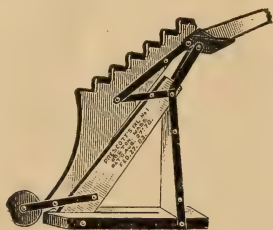
MADE FROM
HEAVY CANVAS.

PLAIN OR WITH BRIDLE.

Price, 35c. to 75c. each.



CARRIAGE JACKS.



\$1.00 to \$4.00.

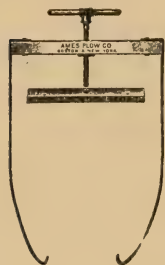
WOODEN STABLE FORK.



Price, 60c.

BARREL HEADER.

This is the most simple labor-saving machine ever invented for heading up barrels and is used extensively for heading up apples, fish and other merchandise.



Price (1-in. screw), \$1.25

STORE AND BAG TRUCKS.

MADE OF HARD WOOD
AND WELL IRONED.
RUBBER TIRED
WHEELS,
for hotel use.



Price, \$2.25 to \$10.00.

HAY KNIFE.



Price, 75c.

BULL RINGS.

Copper and Steel.



Price, 15c. to 30c. each.

PICKS AND MATTOCKS.

Pick.



Price, 75c.

Axe Mattock.

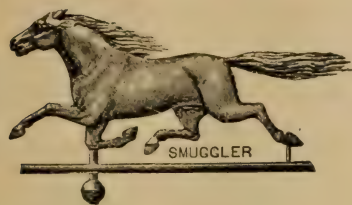


Price, 75c.

Pick Mattock.



Price, 75c.



WEATHER VANES.

All our vanes are made of copper and gilded with 23-karat gold-leaf that will remain bright for years. The vanes include iron spire with steel spindle point, points of the compass and gilded balls and letters.

Descriptive Circular and Price List on Application.

BIRD CAGES, SEEDS AND SUPPLIES.

Brass and Japan Bird Cages,

—ALSO—

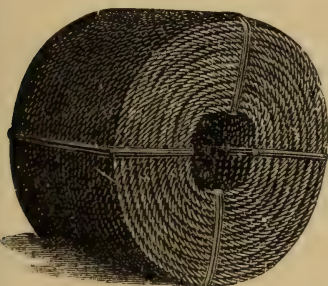
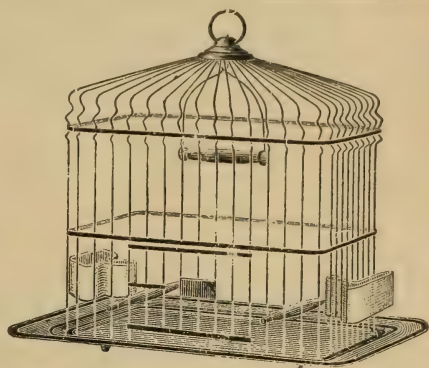
Parrot and Squirrel Cages.

CANARY SEED, RAPE, MIL LET, HEMP, RICE, SUNFLOWER AND CUTTLE FISH

Prepared Mixed Canary Seed.

GRAVEL, SONG RESTORER, PARROT FOOD AND MOCKINGBIRD FOOD.

Cage Springs, Cups, Hooks, Ladder Chains, and Wire Guard Cloth.



CORDAGE.

*Write
for
Prices.*

WELL BUCKETS.

**Made from oak, heavily
hooped.**

—ALSO—

**Light and heavy weight
Buckets made from
galvanized iron.**



THE FAIRFIELD LAWN SWING.



This swing easily takes precedence over all others in the market. Made of clear mountain spruce. Mechanical perfection, durability and ease of operation are combined in its construction.

Favorite		\$3.75
Fairfield No. 2		4.25
" No. 5		5.00
" No. 7		5.50

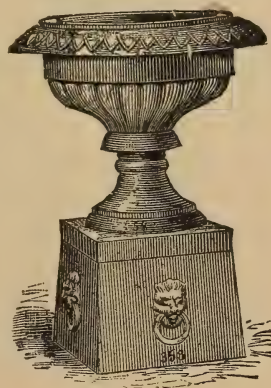
Wooden Measures.



**In sets of
1, 2, 4, 8, and 16 qt.
sizes.
Price per set, \$1.65.**

GARDEN VASES, STONE DRAIN PIPE AND LAND TILE.

**Send for
Illustrated Catalogue
and Price List.**



BASKETS

OF EVERY SIZE AND STYLE FOR
FACTORY, MILL, STORE, FARM AND OFFICE.

Corn Packers' Baskets a Specialty. Write for Quotations.



Ash-Covered Lunch Baskets.

One or Two Bail, Ash-Covered Lunch Baskets.

No. 0.....	\$1.25 each.	No. 4.....	\$.55 each.
No. 1.....	1.00 "	No. 5.....	.50 "
No. 2.....	.70 "	No. 6.....	.40 "
No. 3.....	.60 "	No. 7.....	.35 "



Hole-Handled Market Baskets.



Bail-Handled Market Baskets.

Solid Oak Market Baskets, with Bail, Hole or Block Handle Strapped.

No. 0.....	\$.60 each.	No. 2.....	\$.35 each.
No. 1.....	.50	No. 3.....	.30



Oak Splint Basket.

No. 1.	5 bush., solid oak, nailed rim..	Each.	\$3.25
No. 1.	4 " " " " " "		3.00
No. 1.	3 " " " " " "		2.50
No. 1.	2 " " " " " "		1.00
No. 1.	1 " " " " " "		.65
No. 0.	1 " " " " " "		.50



1-2 bush. Basket.



1-4 bush. Basket.

1/2 bush., solid oak, nailed rim, stiff bail.	Each.	\$.35
1/4 " " " " " "		.30
1/2 " " " " " " drop		.35
1/4 " " " " " "		.30



THE HOLDEN ASH STAVE BASKETS.

One of the smoothest, strongest and best baskets for farmers and grocers. Made in every size from 1/4 bushel to 4 bushels.

OVAL WILLOW CLOTHES BASKETS.

Small.....	\$.65 each.
Medium.....	.75 "
Large.....	.90 "



Barrel Baskets.
35 cents.

OBLONG ASH CLOTHES BASKETS.

Small.....	\$.75 each.
Medium.....	1.00 "
Large.....	1.25 "



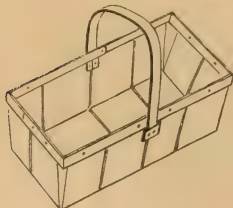
Oval Willow Clothes Basket.

VERBENA BASKETS.

With wood or wire handle. 10 inches long; 5 inches wide; 3 inches deep. \$2.00 per hundred; \$18.00 per thousand.

Wood handle. 12 inches long; 7 inches wide; 4 inches deep. \$2.50 per hundred; \$23.00 per thousand.

Special prices quoted for large quantities.



"K. AND W." SANITARY SWEEPING POWDER.

Can be used on carpets, rugs, linoleums, mattings, tile and wood floors; is economical, non-inflammable, and *absorbs* the dust, thereby preventing the scattering of disease germs. Its use is recommended in every home, public building, store and factory.

Price, 5 lb. package, each,	.	.	.	.	.	.	\$ .25
" 25 lb. pail,	"	.	.	.	.	.	.85
" 75 lb. keg,	"	.	.	.	.	.	1.75
" 135 lb. barrel,	"	.	.	.	.	.	3.00

Special quotations on large quantities.

O-CEDAR POLISH AND DUSTLESS MOP.

The one **Perfect Polish** for pianos, automobiles, furniture, hardwood floors, and all waxed, varnished and polished surfaces, as it **will not gum**, and aside from its high lustre, it is a dust allayer, a labor saver, and clean and sanitary in every particular.

Price O-Cedar,	4 oz. bottle,	.	.	.	.	.	\$ .25
	12 " "	.	.	.	.	.	.50
	Quart can,	.	.	.	.	.	1.00
	Half gallon can,	.	.	.	.	.	1.50
	One " "	.	.	.	.	.	2.50

Price O-Cedar Mop, \$1.50.



THE REGINA PNEUMATIC CLEANER.

"The Housekeeper's Best Friend."

Weighs but 25 pounds and is easily carried in one hand. Occupies small space when not in use and does the same work as other vacuum cleaners costing several times as much. The hose is of a superior grade of rubber and is nine feet long, this having been found to be the most convenient length for all ordinary purposes.

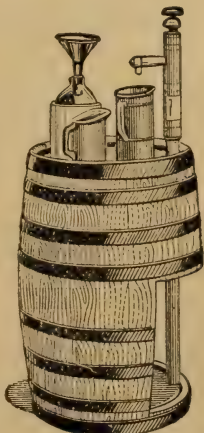
It has a large duplex pump, and is so constructed that a strong suction is created by both the forward and backward stroke of the lever. Every movement of this lever in *either* direction draws a current of air forcibly through the nozzle, thus producing continuous suction which dust and dirt cannot resist.

Price, \$18.00.

20TH CENTURY BARREL PUMP.

FOR VINEGAR.

Made from chemicalized wood and is strictly non-corrodi-
ble; does away with the slow, leaky faucet; will pump the liquid at the slightest stroke of the piston.



Price, \$1.00.

STONE WARE.

ALL SIZES OF

**Stone Pork Barrels, Butter Pots, Bean Pots,
Preserve Jars, Jugs and Churns.**

Write for Price List.



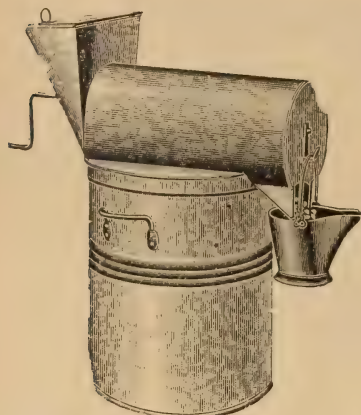
Pork Barrel.



Butter Pot.



Bean Pot.



"THE HUSTLER."

"THE HUSTLER"**ROTARY ASH SIFTER.**

In galvanized iron case. No dust. Works easily, quickly and well.

Price—No. 1, fits 18-in. iron can, or flour barrel, \$4.50

No. 2, fits 20-in. iron can, or sugar barrel, 6.50

THE "LOWELL" COAL SIFTER.

This is an **all wire** sifter, sifting the ashes through the sides as well as the bottom.

Price, complete, with cover, 75c.

THE FAVORITE COAL SIFTER.

Price, complete, with cover, 50c.

**GALVANIZED IRON
ASH BARRELS.**

Solid heavy barrels. No danger from hot ashes.

Price, No. 41,	.	.	.	.	\$1.90
" " 5,	.	.	.	.	2.25
" " 190,	.	.	.	.	2.75



No. 190.



No. 5.

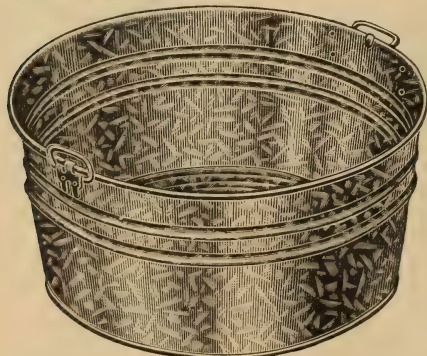
**GALVANIZED IRON
PAILS.**

10 quart,	25c.
12 "	30c.
14 "	35c.
16 "	40c.
10 " extra heavy,	40c.
12 " "	45c.
14 " "	50c.
16 " "	55c.

**GARBAGE PAILS.**

Made from
Galvanized Iron.

No. 02,	\$.75
" 03,	.85
" 04,	1.00
" 40,	1.25
" 50,	1.65
" 310,	2.00

**Galvanized Iron
Tubs.**

No. 11, with wringer attachment,	65c.
" 22, "	75c.
" 33, "	85c.
A. Keelers,	40c.
B. "	45c.
O. "	50c.

Galvanized Iron Coal Hods.

No. 515	30c.
" 516	35c.
" 517	40c.
" 518	45c.
" 156, heavy,	45c.
" 166 "	50c.
" 176 "	55c.
" 186 "	60c.

**BROOMS AND BRUSHES,**

AND A LARGE VARIETY OF WOODEN WARE OF ALL KINDS.

ALL ORDERS PROMPTLY EXECUTED.

HIGH GRADE SCREEN DOORS AND WINDOW SCREENS.

OUR SCREEN DOORS are square mortised and tenoned joints throughout, making the strongest and best construction possible.

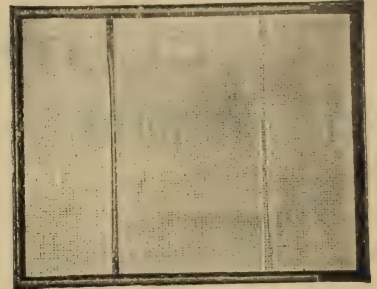
The wire cloth is placed on the screen door by special machinery, which stretches the cloth drumhead tight. The wire cloth is pressed into a groove in the wood and covered with a flush beaded moulding mitered at corners, which prevents the cloth from becoming loose and baggy.



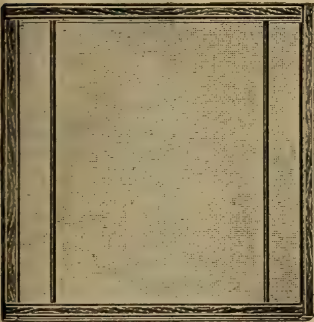
Adjustable Window Screens.

THE SHERWOOD SCREEN

is an all-metal frame made of pressed steel. The wire cloth is drawn tightly and locked securely in the frame. Operates easily in all kinds of weather.



"SHERWOOD."



"HUMMER."

THE "HUMMER" EXTENSION WINDOW SCREEN

guaranteed to have perfect adjustment. Wire cloth is securely fastened to frame, and covered with moulding. Material used is best hard wood, finished in oil, both sides alike.

Peerless Window Screens.

Some Reasons Why the Peerless Window Screen Sells.

It is the best quality screen that can be bought, ready for use, by the consumer.

It is applied and removed from the window, from inside the house, always.

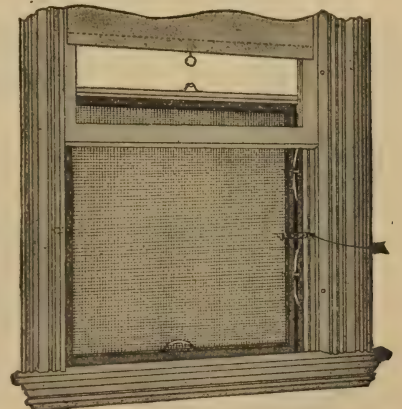
It adjusts instantly between the casings without the use of a tool of any kind.

It can be raised and will remain in any desired position.

It is thoroughly made and painted two coats.

It Keeps the Flies Out!

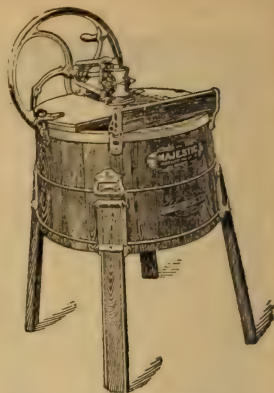
Write for price list of Screen Doors and Window Screens.



MAJESTIC ROTARY WASHER.

The Rotary is simple, strong, easy running and noiseless, the rotary motion being continuous, and the fly wheel heavy. Very little power is required to operate the machine. It is constructed of the **Best White Cedar**, and is strong and finely made.

Price, \$7.00.



CLOTHES WRINGERS.

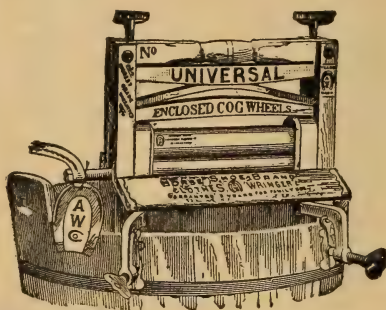
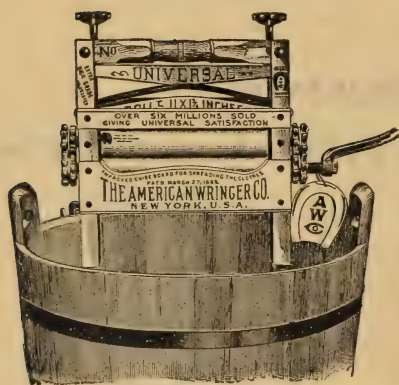
TUB WRINGERS.

Universal,

Household,

Eureka,

Daisy.



BENCH WRINGERS.

Universal,

Household.



UNIVERSAL.

BEST KNOWN AND LARGEST SELLER.

Made either with regular bearings, ball bearings, or with enclosed gears.

Write for Prices.

WHITE'S Patent Mop Wringers.

Will quickly wring a mop perfectly dry,
without touching mop with hands.

The wringer may be instantly attached to the pail and quickly removed.

Always place the wringer on the opposite side of pail from the bail.

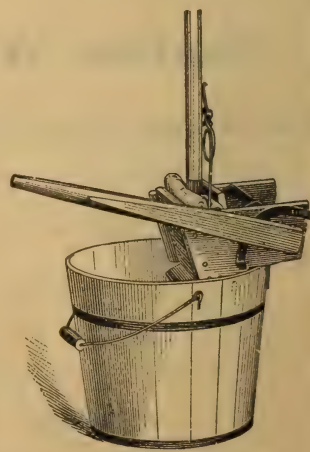
Use mop made of any material desired. A short, thick mop is generally best liked, and is the best wrung by the wringer.

Price, Family Size, \$1.50.

" Hotel " 2.00.



Hotel Size.



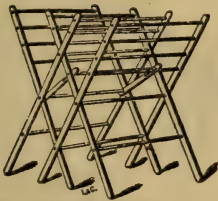
Family Size.

EMPIRE FOLDING WALL DRYERS.

Price,
60c.



FOLDING CLOTHES HORSES.



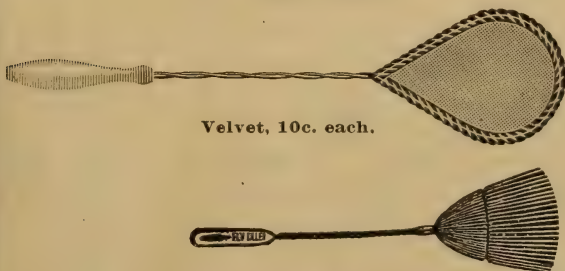
No. 3.....	65c.
No. 3½.....	75c.
No. 4.....	85c.

STEP LADDERS.



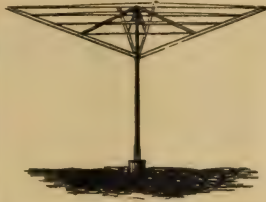
Paris, per foot.....	30c.
Hub, per foot.....	30c.
Challenge, per foot.....	38c.

FLY KILLERS.



Velvet, 10c. each.

Wood and Wire Handle, 10c. each.

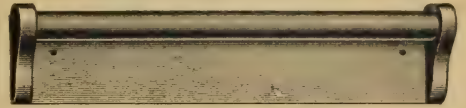


Advance Clothes Dryers.

The Best Clothes Dryers in Use.

No. 1, 120 ft. line,	-	each, \$2.75
No. 2, 160 ft. line,	-	each. 3.00

TOWEL ROLLERS.



Price, 15c.

ROLLING PINS.



Price, 15c.

FOLDING TABLES.

Yard measure stamped on top of each.



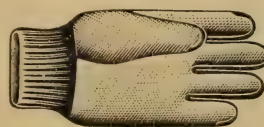
No. 000.	36 x 19 inch.....	\$1.10
No. 00.	36 x 19 inch, with casters..	1.35
No. 0.	36 x 20 inch, with casters..	2.00
No. 1.	36 x 22 inch, with casters..	2.25

New England Folding Card Tables.

Covered with green felt, and finished with metal corners.

No. 21.	24 x 24 inch.....	\$2.25
No. 23.	27 x 27 inch.....	2.75
No. 25.	30 x 30 inch.....	3.25

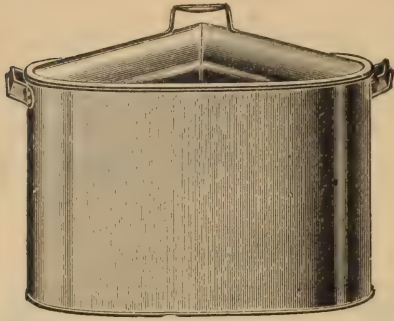
"IDEAL BRAND" COTTON GLOVES.



Fullsize; well made.
Good gloves for all
kinds of work at a
low price.

Price.

No. 3K.....	10c. per pair
No. 2K.....	12c. per pair
No. 26K.....	15c. per pair



WASH BOILERS.

8 in. X tin bottom,	\$.90	8 in. XX copper bottom,	\$1.35
9 in. X " "	1.00	9 in. XX " "	1.60
8 in. X copper bottom,	1.25	8 in. all copper,	2.75
9 in. X " "	1.35	9 in. " "	3.00

TEA KETTLES.

Oil Cans.

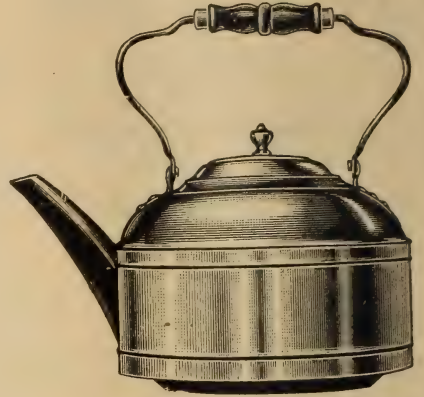


5 Gal. Columbia Oil Can.
Price, 75c.



1 Gal. Polo Oil Can.
Price, 25c.

NICKEL
COPPER.
PRICE,
\$1.10



LARGE ASSORTMENT OF METAL AND GLASS OIL CANS,

holding from one to ten gallons each.

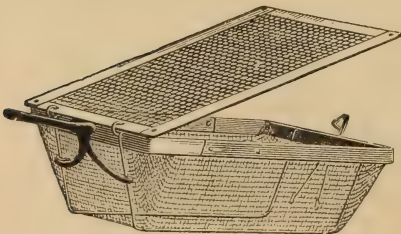
"K. & W." Oil Tanks.

For use where a considerable quantity of oil is kept. These tanks are fitted with a pump, and are safe, convenient and durable.

Price, 60-gallon tank,	\$5.00 each.
" 110-gallon tank,	9.00 "



CORN POPPERS.



Firm and well braced popper, with detachable handle, and with wire guards to protect bottom of popper from wear.

Price.			
1 quart,	12c.	2 quart,	20c.
1 1-2 quart,	15c.	4 quart,	35c.
8 quart (factory size), \$1.75.			

SHERWOOD POPPER (2 quart size). Made with sliding cover. One of the heaviest and best poppers made. Price, 50c.



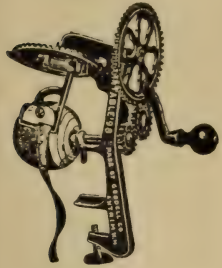
THE UNIVERSAL THREE-MINUTE BREAD MAKER.

Bread Maker, Mixer, Kneader and Raiser all Combined.

Made of heavy tin and sheet steel. All parts tinned. No housekeeper who has once used it will ever be content to go back to the old, laborious, disagreeable way of making bread by hand. Very simple in construction. A child can operate it. As easily cleaned as a tin pail.

Price, No. 2, \$1.35; No. 4, \$2.00; No. 8, \$2.50.

APPLE PARERS.



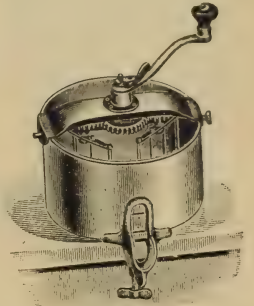
No. '98. Turn Table.

THE UNIVERSAL CAKE MAKER.

Especially Designed for Mixing all Kinds of Cake Batter, and for Whipping Cream and Beating Eggs.

Invaluable for making, in considerable quantities, mayonnaise and other salad dressing, for mixing all batter for fritters, gems and puddings, and for sauces that require beating.

Price, \$1.75.



No. '98. Turn Table,	:	:	60 cents.
White Mountain Parer, Corer and Slicer,	:	:	50 cents.

THE UNIVERSAL FOOD CHOPPER.

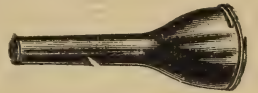
All Parts Tinned and Interchangeable.

Chops rapidly and without mashing, and in pieces as fine or coarse as wanted, all kinds of meat, fish, fruits, eggs, bread and vegetables.

No. 0, 75c.; No. 1, \$1.00; No. 2, \$1.25; No. 3, \$1.75.

STUFFING ATTACHMENT.

Made of one piece of seamless brass tubing, spun in to the shape required, heavily nickel plated and finely finished. A thread on the end of the barrel of the machine fits in the end of the stuffing attachment.



Price, 30 cents each.

COMBINATION SLICER.

For slicing bread, dried beef, pressed meats, cabbage, pineapple, etc.

Instantly changed from a thick slice to the thinnest.

Price, \$3.25.



ROUND TIN DINNER PAILS.

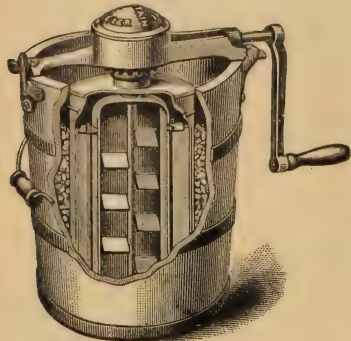
Made from good quality polished tin, complete with pie tray and cup, with seamless outside cover.

Price, 50 cents

—ICE CREAM FREEZERS.—

“WHITE MOUNTAIN.”

Perfected by the introduction of an important feature of a **double self-adjusting wood scraping bar** attached to the duplex dasher. By means of this device the **actual time** of freezing cream has been very materially reduced.



The cut shows the construction and position of the mechanism of the White Mountain Freezer. The can moves from right to left, the outside beater moves from left to right, scrapes with its wooden bars the frozen cream from the can and throws it toward the center, where it is met by the floats of the inside beater moving in an opposite direction and returned to the inside surface of the can to be re-frozen. The triple motion thus induced keeps the cream constantly moving and ensures every particle being smoothly and evenly frozen.

PRICES.

Junior,	\$1.00	4 quart,	\$2.75	12 quart,	\$ 7.00
1 quart,	1.50	6 “	3.50	15 “	8.50
2 “	2.00	8 “	4.50	20 “	11.00
3 “	2.25	10 “	5.50	25 “	14.00

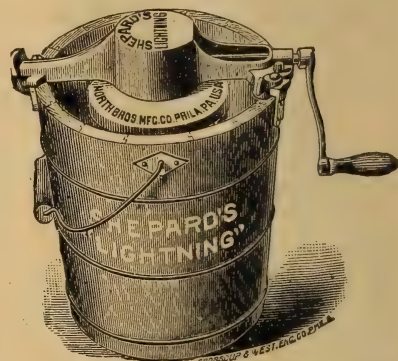
“LIGHTNING.”

Easy running. Quick freezing. Convenient and practical.

Drawn Steel-Bottom Cans, which will not leak or break. The body of can is made of heavy tin plate of finest quality. Tubs with electric welded wire hoops, which are guaranteed not to fall off or break.

PRICES.

1 quart,	\$1.35	4 quart,	\$2.50	10 quart,	\$5.50
2 “	1.75	6 “	3.25	12 “	6.50
3 “	2.00	8 “	4.00	14 “	7.50



“ALASKA.”

The only freezer having the Perpetual Motion Aerating Spoon Dasher, with its spoon-shaped floats, open in the centre like mixing spoons, which aerates, stirs and beats the mixture rapidly and thoroughly.

The cut also shows the new device attached to the under part of the gear-frame or cross-bar, which effectually protects the gearing and can cover from salt and ice.

PRICES.

1 quart,	\$1.50	4 quart,	\$2.40	10 quart,	\$5.00
2 “	1.75	6 “	3.35	12 “	6.50
3 “	2.00	8 “	4.00	15 “	8.50



FREEZER CLAMP OR HOLDER.

A perfect device for holding the freezer firm and steady. Easily adjusted to the tub by means of thumb nuts. Price, 2 to 10 qts., 35 cts.; 12 to 25 qts., 55 cts. each.

An Illustrated Catalogue of Power and Fly Wheel Freezers, Repairs, and Tubs and Cans for Packing Purposes furnished on Application.



THE "PILGRIM" Refrigerators and Ice Chests.

Thoroughly constructed from hard wood, and beautifully finished. Cleanable and perfectly sanitary. The economy of ice is a very important consideration, and the consumption of ice will be much smaller in our refrigerators than in many others, and at the same time insure a low and even temperature, and perfect circulation of cold, dry air.

GROCERS' REFRIGERATORS A 'SPECIALTY.

Send for Illustrated Catalogue and Price List.

"K. & W."

Lightning and Mason FRUIT JAR RINGS.

1 dozen in each package. 12 packages in a carton.

JELLY TUMBLERS.

1-3 pint and 1-2 pint sizes.

FRUIT JARS.

"GENUINE" LIGHTNING.

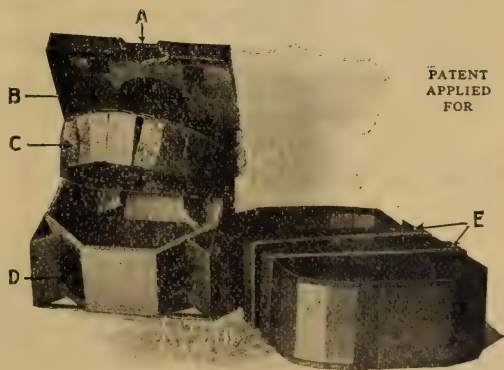
1-2 pint, 1 pint, 1 quart
and
2 quart sizes.



THE "H. & D." FIRELESS BROODER.



PATENT APPLIED FOR



PATENT
APPLIED
FOR

Showing H & D Brooder Construction

A—Celliform construction of ventilator—exit of foul air.
B—Opening through which foul air passes. C—Hover showing non-ravelling felt. D—Door from hover chamber to non-crowding yard. E—Sliding bands to adjust yard.

A practical, common sense, heavy paper brooder, complete with cloth hover, or blanket. Made in one size only, of fifty chick capacity.

The "H. & D." Fireless Brooder for fifty chicks is recognized by practical poultrymen as ideal in all respects, providing the necessary protection, and even temperature in the hover chamber, perfect ventilation, free circulation of air without draught, making sweating impossible. All openings are set on an angle, and as there are no corners in the yard or hover chamber, crowding is prevented.

Will care for chicks until they are six weeks old, when they may be transferred to the colony house.

PRICE, \$2.00.

Write for Descriptive Circular.

WE ARE AUTHORIZED AGENTS FOR

GENUINE

"Standard" Cyphers Incubators

PATENTED

THE WORLD'S STANDARD HATCHER.



The Cyphers Incubator has **won its way** in all parts of the world where domestic fowls are kept, because it is **different** and better in construction, because of its **patented principles**, because it gives **best results**.

WHY A FIRST-CLASS INCUBATOR IS NECESSARY.

Buying an incubator is different from buying **any other article in common use**. A farm wagon or a piece of household furniture, if of "cheap" make and inferior quality, may **answer the purpose** for awhile and should last some time, but with an incubator (or a brooder) it is **different**—decidedly so.

And the reasons are plain. An incubator deals with the life principle! It must be relied on to do the delicate work of producing **a living organism**—a complete chick in perfect health, with all the vitality Nature requires.

This matter of "vitality" in chicks is of the **very highest** importance.

It is not alone the question of "how many" chicks, but also of **HOW GOOD**—of how **strong, vigorous** and **healthy** they are, how **well hatched**.

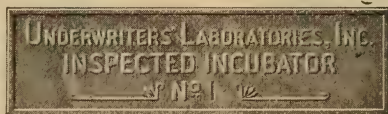
FIRST—INSTEAD OF LAST.

If you are going to use an incubator at all, buy a good one—**the best to be had**. If you decide that you would like to own a Cyphers, we urge you to buy it **first**—not after you have "tried" some cheap machine and met with discouraging losses.

The Cyphers is the logical incubator for the poultryman who **has reached** success. It also is the logical incubator for the man or woman or boy or girl who is **beginning** in the work, and who plans to get out of poultry **the most there is in it**.

EVERY STANDARD CYPHERS INCUBATOR IS GUARANTEED by the manufacturers to do first-class work **in the hands of every purchaser** who will give it a fair trial, and we hereby place our guarantee back of theirs. **In buying a Cyphers you take no chances**. Persons who earnestly desire to succeed in the poultry business should have the right tools with which to work. Write us to-day for **free illustrated catalogue** telling all about these superior hatching machines.

DEMAND THIS LABEL



YOUR SAFETY

Form of Brass Label to be found (in serial numbers) on every Standard Cyphers Incubator.

SIZES AND PRICES OF CYPHERS FIRE-PROOF INCUBATORS.

No. 0. Holds 70 Hen's Eggs,	\$15.00	No. 2. Holds 244 Hen's Eggs,	\$32.00
No. 1. " 144 " "	22.00	No. 3. " 390 " "	38.00

NOTICE: The above prices are **factory prices**. In buying of us you save on freight and also save valuable time. Incubators, brooders and supplies carried in stock the year round.

WE ARE AUTHORIZED AGENTS FOR

"STANDARD" CYPHERS BROODERS.



CYPHERS STYLE C OUTDOOR BROODER.

Fire-Proofed, Insurable, Self-Ventilating and Self-Regulating.

Same in all respects as the popular Style B Brooder (formerly known as Style A), except that hover apartment has double walls with air-tight space between, and window to hover apartment has double glass with air space between.

chicks at night and saves the buying of a coop for them. These outdoor brooders, on account of their fire-proof construction, can be used indoors, although we supply a special brooder, Style D, for indoor purposes. All Cyphers Brooders, both outdoor and indoor, contain **either two or three apartments.** The popular Styles B and C contain three apartments—first, roomy space under the hover; second, hover chamber; third, well-lighted exercising apartment. It has often been said by users of the Cyphers Brooders that

Cyphers Unequaled Apartment Brooders are as well constructed and as well adapted for the uses intended as are the Standard Incubators. They not only are **fire-proof** and **insurable**, but are the **best designed**, the **most durable**, the **most convenient**, and the **most efficient** indoor and outdoor individual brooding devices thus far invented and placed on the market.

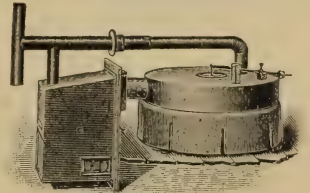
The outdoor styles are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose.

THIS DOUBLE USE of the Cyphers Brooder means a considerable saving of money. It makes a safe and comfortable enclosure for the young

THEY MOTHER THE CHICKS BETTER THAN A HEN.

All Cyphers Company Brooders are built so that they can be shipped knock-down, compactly crated, thus insuring much lower freight rates to all points. With every brooder we furnish an illustrated circular of directions for setting it up.

IN ADDITION to this line of brooders, we offer separately the Cyphers **Adaptable Hover**. This machinery-made, all-metal, guaranteed fire-proof heating and brooding device is **suitable to be used anywhere** that heat is required for brooding chicks or ducklings.



**ALL METAL ADAPTABLE
HOVER.**

UNDERWRITERS LABORATORIES, INC.
INSPECTED BROODER
No. 112

**DEMAND THIS LABEL.
YOUR SAFETY.**

Form of Brass Label to be found (in serial numbers) on every Cyphers Brooder.

Is pronounced by thousands of (Self-regulating and bears Insurance
users to be the best device thus far Label as separate device.)

invented for heating home-made brooders. Recommended especially for use in long brooding houses, one hover for each pen. Adaptable hover is complete in itself and **bears insurance label.**

SIZES AND PRICES OF CYPHERS ADAPTABLE HOVER AND BROODERS.

Adaptable Hover, capacity 75 chicks,	-	-	-	-	-	-	\$ 8.50
Style A, Two Apartment Outdoor Brooder, capacity 75 chicks,	-	-	-	-	-	-	12.50
Style B, Three Apartment Outdoor Brooder, capacity 100 chicks,	-	-	-	-	-	-	16.50
Style C, Three Apartment Outdoor Brooder, capacity 100 chicks,	-	-	-	-	-	-	18.50
Style D, Two Apartment Indoor Brooder, capacity 75 chicks,	-	-	-	-	-	-	11.50

THE PARADISE BROODER. Sold in one, two, three or four sections. The brooder complete consists of four sections, and in this form is the most economical and convenient where a capacity of three hundred to five hundred chicks is desired. **Each section consists of two entirely separate apartments,** the rated capacity of each being fifty to seventy-five newly-hatched chicks. Fifty chicks in each lot is the number recommended.

Base section complete (including heater, fresh-air box, cover, legs, ventilating cap and water can, which are sent with base section only),	-	-	-	\$20.00
Additional sections, each,	-	-	-	15.00

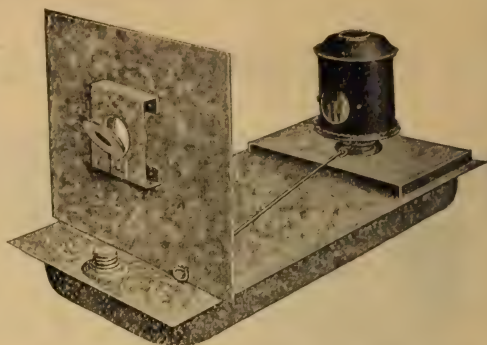
Cyphers Improved Insulated Brooder Stove.

This stove combines a heater proper, a burner equipped with new-style metallic chimney, which protects the flame at all heights from drafts and prevents smoking, an insulating plate that serves also as a stove slide, and an upright plate of galvanized iron that forms the door to the brooder through which the stove is operated.

Price, \$1.75.



Cyphers Safety Brooder Stove.



Cyphers Improved Insulated Brooder Stove.

Cyphers Safety Brooder Stove.

The safety water pan on the Cyphers Safety Brooder Stove holds nearly a quart of water, and extends out over the entire surface of the oil bowl, thus placing a sheet of cold water one inch to one and one-half inches in thickness between the oil bowl and the flame jets.

Price, \$1.75.

Cyphers Practical Egg Tester.

Is 18 inches high, 10 inches wide and 10 inches deep. The top is of galvanized iron, and is equipped with an extra strong reflector. The lamp is made of the best block tin, the seams being machine turned, and soldered and tested for leaks. The burner is of the latest pattern and construction. No chimney is furnished, because of the liability of breakage in shipping. An ordinary glass chimney will fit the burner and is exactly adapted to the purpose.

Price, complete (including box, lamp and reflector), \$1.50.

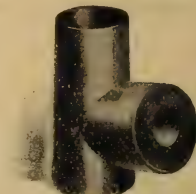


Cyphers Practical Egg Tester.

Cyphers X-Ray Egg Tester.

Is made of block tin and consists of a central cylinder or lamp flue $5\frac{1}{4}$ inches high, with an outside diameter of $2\frac{5}{8}$ inches at the base, and $2\frac{3}{8}$ inches at the top. It is designed for use on an ordinary hand lamp, and fits over any style of burner with a diameter approximating that of the tester.

Price, 25 cents.



Cyphers X-Ray Egg Tester.

HIGH-GRADE TESTED THERMOMETERS.

The price of incubator thermometers does not include the wire hanger. Wire hangers will be supplied at ten cents extra for each thermometer. In ordering wire hangers, be sure to state size of your incubator and year manufactured. If machine has no packer's slip bearing date of manufacture, send description of machine. This is important.

When ordering brooder thermometers name the style of brooder in which it is intended to be used.



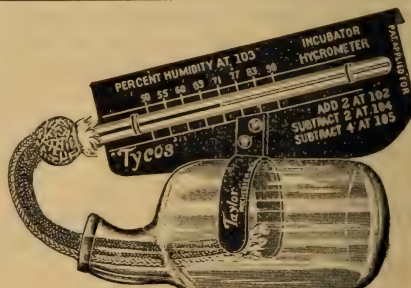
Cyphers Incubator Thermometer.
Price, 60 cents.

Incubator Hygrometer.

The cut shows the correct position of the instrument in use, taking the place of one egg in the egg tray, thus showing the conditions actually surrounding the eggs. The glass bottle should be filled with clean water and the wick inserted and wet thoroughly, from end to end, before placing in the egg tray. The wick must be kept clean, otherwise the water will not draw up to the thermometer bulb. Should the wick become clogged, it must be replaced.

Price, \$1.50.

Extra wicks, each, 10 cents.



Cyphers
Brooder Thermometer.
Price, 50 cents.

AMERICAN FIELD AND HOG FENCE.

Headquarters for Farm Fences. AMERICAN FENCE



MADE IN ALL HEIGHTS

Made of large, strong, high-grade steel wires, heavily galvanized. Ample provides for expansion and contraction. Is practically everlasting. Never goes wrong, no matter how great a strain is put on it. Does not mutilate nor injure stock.

Turns Cattle, Horses, Hogs and Pigs

EVERY ROD GUARANTEED by us and guaranteed by the manufacturers. Call and see it. We can show you how it will save you money and fence your fields so they will stay fenced.

WRITE
FOR
DESCRIPTIVE
CATALOGUE
AND
PRICE LIST.

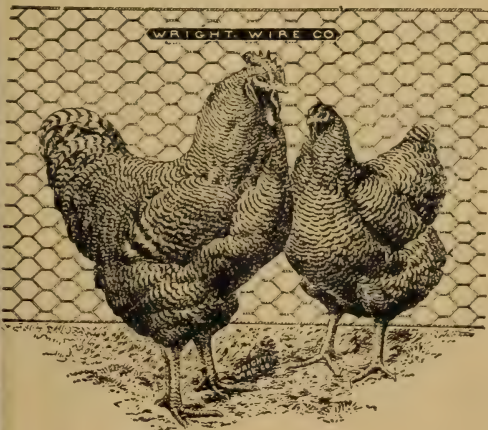
NEW AMERICAN POULTRY FENCE.

The American Poultry Fence, as now made, is without doubt the best on the market, adequate for all requirements in fencing against poultry, large and small. Hence, for poultry yards, gardens, orchards and yards, it is a great favorite. It is made with stays six inches apart. Spacing from one and one-half inches at the bottom to five inches at the top.

DISTANCE BETWEEN
BARS—INCHES.

5	21 BARS	58 INCHES HIGH
5	19 BARS	53 INCHES HIGH
4½	19 BARS	45 INCHES HIGH
4½		
4	16 BARS	35 INCHES HIGH
4		
3½		
3½	13 BARS	24 INCHES HIGH
3		
2½		
2½		
2		
2		
1½		
1½		
1		
1		

Write
for
Descriptive
Catalogue
and
Price List.



GALVANIZED POULTRY NETTING.

Made from selected steel wire, galvanized after weaving. Made in 2-inch and 1-inch mesh, and of a superior, smooth finish.

WRITE FOR PRICES.

"K. & W." EGG CASES.

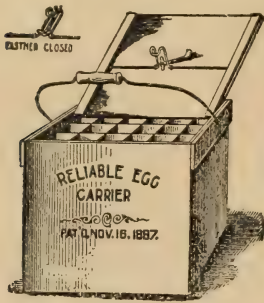
The most popular Egg Cases in the market and used largely by shippers of eggs.

PRICES COMPLETE.

8 dozen	.....	\$ .75
15 "	.....	.95
30 "	.....	1.15
49 "	.....	1.35
56 "	.....	1.50

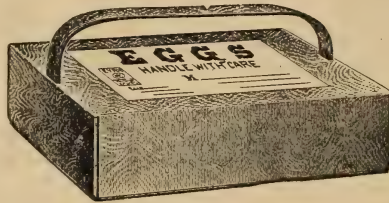
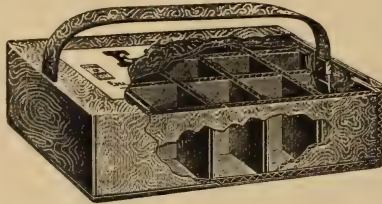


RELIABLE EGG CARRIER.



Has a patent fastening on the cover. Each carrier, with a capacity of 12 dozen, complete with fillers. Price, 65 cents.

EYRIE SHIPPING EGG BOX.



Eyrie Shipping Egg Box.

Unquestionably the best box on the market for shipping safely fancy eggs by express. Made of heavy corrugated cardboard. They are very strong, compact, light and convenient. The handle, when put in place, locks the box and it cannot be tampered with in transit. The handle prevents the putting of anything on top of the box and thus prevents rough usage. 1 setting, 15 cts. each, \$1.50 per doz.; 2 settings, 20 cts. each, \$2.00 per doz.; 1 setting, each, by mail, 20 cts.

WIRE HEN'S NEST.

Strongly made of heavy japanned wire, and are very durable. Fasten to the wall with two heavy screws. Easily kept clean. No harbor for vermin.

Price, 20c. each; \$1.50 per dozen.



STAR EGG CARRIERS AND TRAYS.

The excellence and economy of Star Egg Carriers appeals to all who deliver eggs. Quickly filled and quickly emptied.

Carriers are made of strong wood, and can be piled deep in the delivery wagon.

PRICE.

No. 1 (1 dozen eggs),	.....	\$1.50 per dozen
No. 2 (2 dozen eggs),	.....	2.50 per dozen
No. 1 trays,	.....	\$2.00 per M
No. 2 trays,	.....	3.50 per M





OPEN.

SEXTON DRY FEED HOPPER.

This Hopper is arranged to hang on the wall the desired distance from floor and never need be removed from the wall to be refilled. It is impossible to waste any feed, as the pan at the bottom takes any feed that may be picked out, and the last crumb can be used, therefore saving any waste. The body being covered keeps feed dust proof and clean, and is always dry.

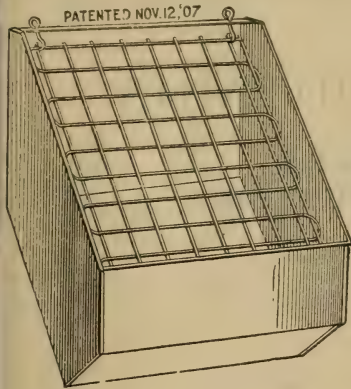
Body made of galvanized iron and the grating is of round galvanized wire, preventing the poultry from cutting their bills.

The lower cover is so arranged that it is held up by locking the top cover of Hopper over same, and by raising the top cover the lower cover will fall in place. Simple in construction, easily operated and absolutely "Rat" and and "Mouse Proof."

Price, poultry size, \$1.00.



CLOSED.



Boston Dry Feed Hoppers.

Made of Heavy Galvanized Iron.

Small Hopper, for meat scraps, shells, grit or charcoal,

Price, \$.90

Large Hopper, for dry feed for hens,

" 1.00

Chicken Hopper, small,

" 1.00

Chicken Hopper, large,

" 1.90

"Sanitary" Self-Feeding Box.

Called Grit Box for Short.

Three spaces. Made of heavy galvanized iron. Will last a lifetime. Saves waste. Hangs on a nail. Holds four quarts. Soon pays for itself. Neat, cheap and convenient.

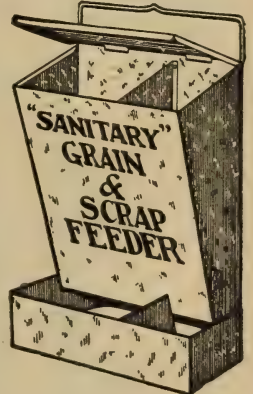
Price, 50 cents.



"Sanitary" Self-Feeding Box.

Two spaces. Made of heavy galvanized iron. Will effect a great saving in feeding grain and scraps. Practically every particle is consumed. Capacity, eight quarts.

Price, 75 cents.



Hangs on two nails. Easy to clean. Saves waste. Always out of the way. Holds three quarts.

Price, 35 cents.



No. 1, 6 x 7 x 1½ inches deep; capacity, 1 quart.
Price, 15 cents.

No. 2, 7½ x 8½ x 1½ inches deep; capacity, 1½ quarts.
Price, 20 cents.

No. 3, 18 x 6 x 2½ inches deep; capacity, 5 quarts.
Price, 35 cents.

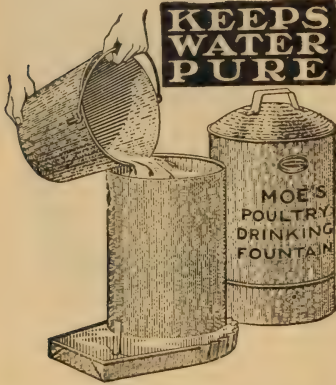
Atsatt Chick Feeder.

A neat device for feeding young chicks; they cannot get into it or stand on it. The top removes easily for cleaning or filling. 10 in. long, 4 in. wide.

Price, 25 cents.



MOE'S TOP-FILL POULTRY DRINKING FOUNTAIN.



PURE WATER—HEALTHY CHICKENS.

The cause of most poultry troubles can usually be traced to failure to properly protect their drinking water from contamination from the chickens themselves. It is a very easy matter to end this class of trouble by supplying your chickens with *pure* water and *keeping* it pure with this fountain. It always supplies just enough pure water. Won't slop over. Dead air space keeps water *cool in summer, warm in winter*. Simple in construction. Remove cover and fill from top. Water ceases to flow when cover is removed. One, two and three gallon capacity. Made from best quality galvanized iron.



Price, 1 gallon, \$1.25; 2 gallons, \$1.75; 4 gallons, \$2.25.

POULTRY DRINKING FOUNTAINS.



THE "SANITARY" FOUNTAIN.

Made of heavy galvanized iron, perfect in workmanship; most convenient fountain on the market.

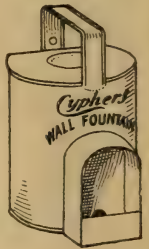
A one-gallon fountain will supply twenty fowls.

Price, 1 gallon, 50 cents; 2 gallons, 75 cents.

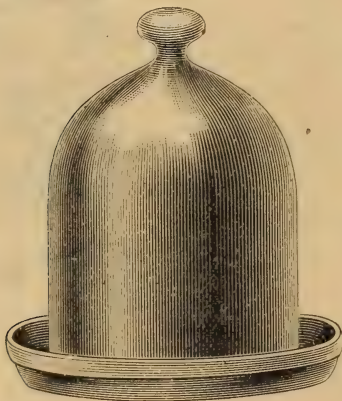
CYPHERS WALL FOUNTAIN.

Made of heavy galvanized iron. Convenient to fill and empty. Keeps water cool and pure. Will not be injured by freezing. Can hang up on the side of the wall or partition.

Price—1 gallon, 50 cents.
2 gallons, 75 cents.



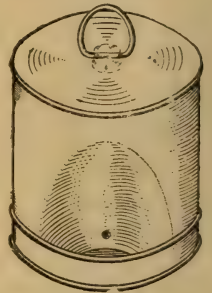
STONE FOUNTAINS.



1-4 gallon,	-	-	-	25 cents.
1-2 gallon,	-	-	-	30 cents.
1 gallon,	-	-	-	35 cents.

THE PEERLESS FOUNTAIN.

Protected from dirt and filth. The fowl cannot injure their combs while drinking. Easy to clean and fill. Made of heavy galvanized iron. Durable and practical.



PRICE.
5 qt. size, 60 cents.
Chick size, 35 cents.

NESCO FOUNTAINS.

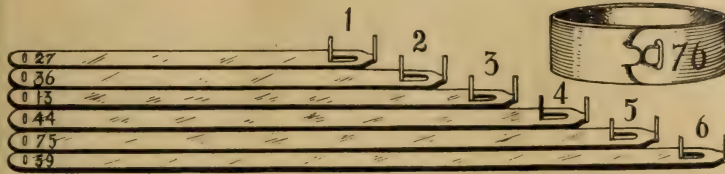
1-2 gallon galvanized iron,	30 cents.
1 " " "	35 cents.



THE SANITARY CHICK FOUNTAIN.

The "Chick" stands five inches high and holds one quart, and its construction gives no chance for the chicks to fall in and get drowned. The square base makes it nearly impossible to tip over. Price, 25 cents.

LEG BANDS FOR POULTRY AND PIGEONS.



DOUBLE CLINCH LEG BANDS POULTRY SIZES
CUTS SHOW EXACT LENGTH

DOUBLE CLINCH LEG BANDS.

(Aluminum)

These bands are neat, easily applied, and cannot come off by accident.

In ordering state what breed they are for, and what letters or numbers you wish put on them.

Price.

75 cents per hundred.

CLIMAX LEG BANDS.

**Easily Applied and
Easily Removed.**



PRICE.

75 cents per hundred.

NORWICH AUTOMATIC FEEDER.

"FILL THE HOPPER AND THE BIRDS DO THE REST."

Fill the hopper with any dry grain feed, or any mixture of dry grain feed, and the revolving bait bar with cracked corn. Stand the Norwich Automatic Feeder anywhere in the yard, pen or house, and put any kind of litter under machine. Adjust valve to feed desired quantity. Adjust legs for required height. Every kernel of grain put in the Hopper will go to your flock. Nothing will be lost from any cause. The exercise given by the action of the machine is just sufficient to keep the flock in perfect condition; a few days' trial will show the breeder that the flock will be bright and alert, and with a total absence of dull, stupid, or drooping appearance.



Price—No. 1,	.	.	.	\$2.50
No. 2,	.	.	.	3.25
No. 3,	.	.	.	4.10

ECONOMY OATS SPROUTER.

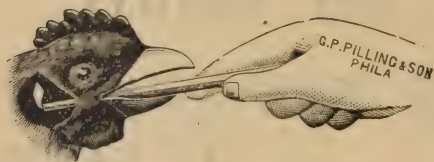
THE NATURAL PROCESS FOR SPROUTING.

Contains five sprouting pans and one drip pan 16 x 17 inches. Iron rack is 35 inches high.

By feeding sprouted oats through the winter, egg production can be kept up to a much larger degree than otherwise.

Price, \$5.50.





POULTRY KILLING KNIVES.

Every poultry raiser should have one of our killing knives. They are made of finely tempered instrument steel, with nicked handle. Sent postpaid, on receipt of price.

Angle blade, 50c.; French, straight blade, 50c.



THE "TRIUMPH" CAPONIZING SET.

There is no doubt as to the advantages of caponizing. The operation is very simple, and with a "Triumph" Caponizing Set it can be performed with safety and thoroughness. Price per set, in japanned wood box, \$2.50.

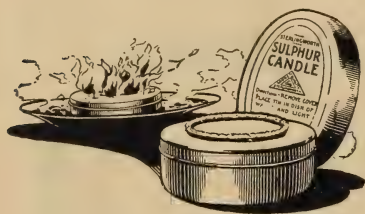
Clipper Poultry Marker.

Do you keep a record of chickens? There is no better or quicker way than by marking, as many different marks can be made by punching web between the toes. Made in two sizes. Sent postpaid, on receipt of price, 25 cents.



"PERFECT" POULTRY MARKER.

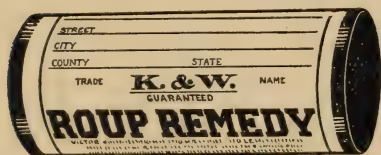
Makes a good, clean cut, does not mutilate the web, and is a thoroughly practical marker. Price, 50 cents.



Sterlingworth Sulphur Fumigating Candles.

The candle is made from pure high grade sulphur, and has a circular wick, which, when once lighted, stays lighted. Is especially useful to poultrymen in ridding poultry houses of insect pests, as the vapor from it penetrates crevices not reached by other means.

In circular tin box, price, each, 15c.



"K. & W." ROUP REMEDY.

Is guaranteed to cure any case of roup, if used according to directions.

Price per pkg. (makes 25 gals.), postpaid, 25c.

STERLINGWORTH LICE POWDER.

Fatal to all lice and other insect vermin, and harmless to fowls, chickens and all animal life. Invaluable for use on setting hens and chicks. One of the best and cheapest on the market.

PRICES.

15 oz. pkg.,	\$.25
3 lb. pkg.,	.50
6 1-4 lb. pkg.,	1.00



STERLINGWORTH DIARRHOEA REMEDY.

A reliable remedy for diarrhoea, dysentery and other kindred bowel troubles in young chickens, full-grown fowls and pigeons. Keep it on hand and use it as a preventive. It is a powder for use in the drinking water. The chickens and fowls take their own medicine.

PRICE: Per box, sufficient for several flocks, 50 cents, postpaid.

Poultry Foods and Specialties.

"K. & W." Superior Oyster Shells.
 Chicken Grit (fine).
 Pigeon Grit (medium).
 Poultry Grit (coarse).
 Bone Meal.
 Poultry Bone.
 Superior Beef Scraps.
 Bowker's Animal Meal.

Bradley's Meat Meal.
 Alfalfa Clover Meal.
 Sunflower, Millet and Hemp Seed.
 Linseed Meal.
 Buckwheat.
 Barley.
 Wheat.

White Canada Peas.
 Kafir Corn.
 Tobacco Dust (in bulk).
 Powdered Tobacco (in packages).
 Charcoal.
 Lice Killers.
 Nest Eggs.

Write for Quotations.

STERLINGWORTH POULTRY CHARCOAL.

Prepared expressly for feeding chicks and fowls.

X (fine powdered), for mash foods for poultry and stock.

XX (fine granulated), especially for chicks.

XXX (medium granulated), for half-grown fowls and pigeons.

XXXX (coarse granulated), for fowls, geese and turkeys.

Price, 50 lb. paper lined burlap bags, \$1.00 each.

" 2 lb. pkg., .10 "



"K. & W." Poultry Remedies.

- Remedy No. 1.** For all forms of indigestion, liver disease, sour crop, crop-bound.
Remedy No. 2. For rheumatism and cramps.
Remedy No. 3. For all sudden colds, with sneezing, watery discharge from eyes and nose. Prevents roup.
Remedy No. 4. For catarrhal colds, with rattling in throat.
Remedy No. 5. For all diarrheas of poultry, and particularly in cholera.
Remedy No. 6. For diphtheritic roup and canker.
Remedy No. 7. For chicken-pox, bumble-foot, to promote healing of sores. Cures chronic catarrh.
Remedy No. 8. For soft-shelled eggs, all diseases of egg organs and to correct sterility.
Remedy No. 9. For egg-bound. Also for the diseases where there is swelling of the eye with an accumulation of yellow matter under the lids.
Remedy No. 10. For worms.

These remedies are put up in tablet form, 100 tablets to a vial. Each label contains full directions for use and the diseases which the remedy will prevent or cure. Price, postpaid, 40c. per vial. Please order by number.

"OCULUM."

Scientific Remedy and Preventive for Cholera, Roup, White Diarrhea and Sore Head;
 also Cure for Gapes.

Price, small bottle, 50 cents; large bottle, \$1.00 (postpaid).

PLASTER DUST.

Ground and bolted fine as flour. Valuable to use about the henhouse and to dust into nests.

Packed in barrels, . . . Each, \$1.75.

"PURINA" POULTRY FEEDS.

"Purina" Chick Feed.

Special care has been taken in balancing this feed. Nothing but sound, sweet ingredients are used. The finest mixture of grain possible for developing growing chicks and poultry.



"Purina" Scratch Feed.

This feed has been used for years by the foremost poultry fanciers. Will keep fowls healthy, affording them plenty of exercise; an ideal "scratch feed."



"PURINA" CHICKEN CHOWDER.

A complete mash, which can be fed either wet or dry, at any time during the day. Is a highly nutritious balanced ration for laying hens, as it is high in egg-making qualities, and feeding this mash once a day will keep the flock in a healthy condition.

MEDIUM CHICK FEED.

This is designed to follow the fine Chick Feed. It contains practically the same properties as Fine Chick Feed, only larger, and is just right to feed chicks after they have reached the age where they do not need the smallest food. This will carry them through to maturity without any other grain.

ALFALFA CLOVER MEAL.

This makes a green food the year round. It is very high in protein and furnishes to chicks a growing food, which at the same time has a medicinal value. Its value as a helpful food, especially in cold weather, is unquestioned.

WRITE FOR QUOTATIONS.



LEE'S INSECT POWDER.

Easy to apply, and effective on poultry and young chicks.

Price, 25 cents.

CARBONOL.

CARBONOL IN THE HEN HOUSE.

Carbonol should be used as a general disinfectant in henhouses to keep them clean and healthful, kill lice and destroy any disease germs before they have a chance to infect the flock.

LICE AND ALL KINDS OF VERMIN

May be destroyed on poultry, pigeons, etc., by painting roofs and spraying floors and walls of their coops and houses with a 1-65 solution of **Carbonol** (about one tablespoonful to a quart of water).

PRICE.

Pint bottle,	\$.50	Quart bottle,	\$.75
1 gallon can,	\$1.75		

MORE EGGS AND BETTER BREEDING STOCK BY FEEDING

LEE'S EGG MAKER.



The most successful combination of those food elements necessary to strong, vigorous birds, and to the production of the largest number of eggs.

It furnishes the material necessary (but lacking in most food rations) to make eggs, or rather, to turn the largest amount of food into eggs.

Protein—digestible protein—that's it! Meat food in many forms is conveniently obtainable, but little of it is digestible, and food that isn't digestible is worse than no food at all.

Lee's Egg Maker contains **more** protein in **digestible** form than other meat foods and is the cheapest and best form of meat food obtainable. Its base is principally granulated blood (deodorized) and with which is combined blood purifying, tonical and palatable qualities that make it a **superior** product in every way.

There is not one ounce of bran, sand, shell or other cheap and worthless filler in our product. No other poultry food looks like it, smells like it, or

resembles it in any way. **Lee's Egg Maker** is clean, wholesome, thoroughly sterilized, and absolutely free from maggots and other vermin so common to the ordinary commercial brands of meat food.

Lee's Egg Maker should be fed every month in the year to all penned-up poultry; to **little chicks** after they are 10 days old; to **hens** and **pullets** during the **moulting season**; and as an **egg-producer** during the **winter months**.

2 1-2 lb. package, 25c.

5 1-2 lb. package, 50c.

15 lb. pail, \$1.25

25 lb. pail, \$2.00



PRATT'S POULTRY REGULATOR.

MAKES HENS LAY REGULARLY

and insures

Healthy Flocks of Chickens, Turkeys, Ducks, Geese and Pigeons.

26 oz. package, 25c.; 4 lb. package, 50c.; 9 lb. package, \$1.00;

12 lb. pail, \$1.25.

A full line of Pratt's Poultry and Stock Foods and Supplies constantly on hand.

CLOVER BRAND POULTRY TONIC

CONTAINS JUST THE INGREDIENTS

That are needed by all poultry to keep them in a healthy condition, and at the same time furnishing a tonic for the entire system, regulating their digestion, and furnishing bone-making and egg-producing materials.

Price, small package, 25 cents; medium package, 50 cents; 25. lb. pail, \$3.00.

INTERNATIONAL POULTRY FOOD.

Small package, 25c.; medium package, 50c.; large package, \$1.00.

BLATCHFORD'S CALF MEAL.



The Perfect Milk Substitute for Raising Calves.
100 lbs. of it Makes 100 Gallons of Rich,
Nutritious Gruel.

Thousands of farmers are raising their calves on Blatchford's Calf Meal at about half what it costs to raise them on milk.

It is absolutely the only milk substitute that contains all the elements necessary for bodily growth in approximately the proper proportion, and it is the only calf meal that is thoroughly cooked and prepared for digestion.

It pushes calves, pigs, colts, etc., forward better and quicker than any other food.

Price, \$3.50 per 100 lbs.

KENDALL & WHITNEY, State Agents.

POULTRY, HORSE AND CATTLE SPECIALTIES.



PRATT'S HORSE AND CATTLE FOOD.

7 lb. packages, 50c.;

12 lb. bags, 75c.;

12 lb. pails, \$90; 25 lb. pails, \$1.70.

PRATT'S ANIMAL REGULATOR.

25c., 50c. and 75c. packages.

LAMBERT'S DEATH TO LICE POWDER.

15 oz. pkg., 25c.; 3 lb. pkg., 50c.; 6 1-4 lb. pkg., \$1.00.

LEE'S LICE KILLER.

A liquid preparation having all the killing properties of any powder or dip, besides the *vapor* that it gives off is destructive to insect life, though harmless to fowl. It permeates every crack and crevice of the poultry house, and all hiding places of vermin and destroys them.

PRICE.

1 qt., 35c.; 1-2 gal., 60c.; 1 gal., \$1.00.

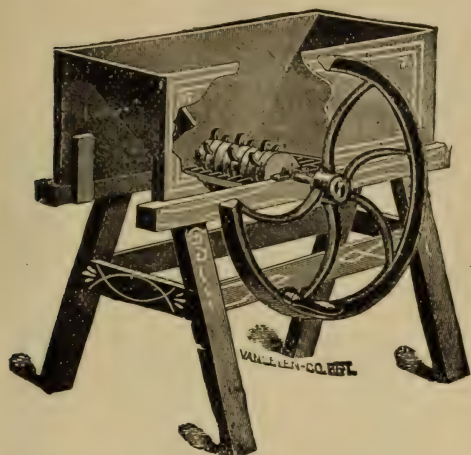


"STERLINGWORTH" FISH FOOD.

A pure food prepared especially for feeding gold fish, etc.,

Price, 10c. per package.

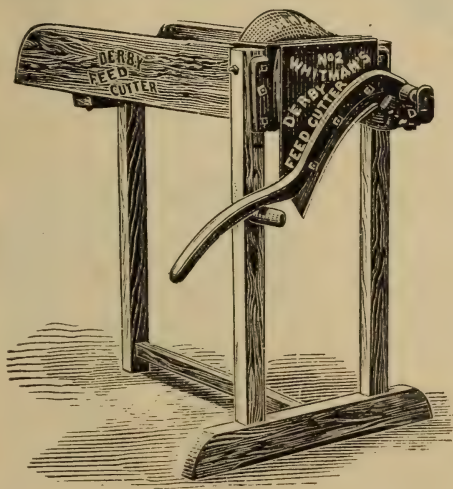
Champion Root Cutter.



This well-known root or vegetable cutter has been on the market for many years, and is too well known to need further description. It is well made of good material.

Price, \$6.25.

Derby Feed Cutters.



This iron handle level cutter is so simple and easy to work as to commend it to everybody who has but a moderate amount of stock to feed. The knife is easy to adjust, grind and keep in repair.

Price, from \$3.50 to \$6.00.

WHITMAN'S Monitor Cider Mills.

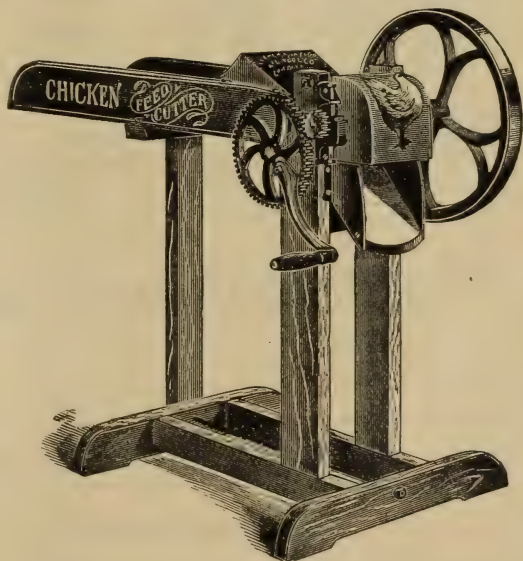
Several improvements have been added, such as new hopper, the rolls made longer and larger in diameter, new adjustable crusher or breaker roll, which increases the capacity, grinds the fruit coarse or fine, as the grinders are adjustable.



Senior Monitor, 2 crank,	.	.	\$24.00
Senior Monitor, 1 crank,	.	.	23.00
Medium Monitor,	.	.	17.50
Junior Monitor,	.	.	15.00
Hutchinson No. 1, single hoop,	.	.	10.00
Hutchinson No. 0, single hoop,	.	.	9.00
I-Am-It No. 1, single hoop,	.	.	10.00

Chicken Feed Cutter.

Invaluable to Poultry Raisers.



This is a highly efficient machine for cutting clover, hay or other feed into extremely short lengths. It is made with three knives $6\frac{1}{4}$ inches long, and a self-feeding comb roller, which straightens the feed as it is presented to the knives, making a more uniform length of cut. It cuts very rapidly, being one of the fastest machines of its size.

Cuts 1-4, 7-16 and 3-4 inches.

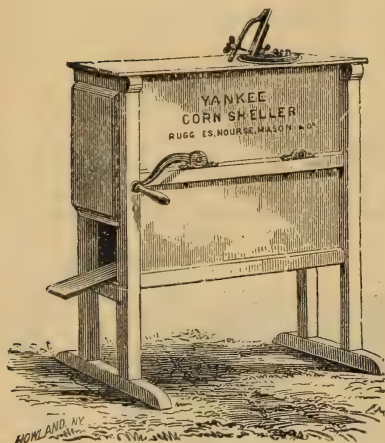
Price, \$15.00.

PONY CORN SHELLER.

Has separator, and large, heavy balance wheel. The working parts are held firmly together by solid shaft boxes or bearings. One of the most popular shellers on the market. Made in one size only. Complete with blower attachment.

Price mailed on application.

Yankee Corn Sheller.

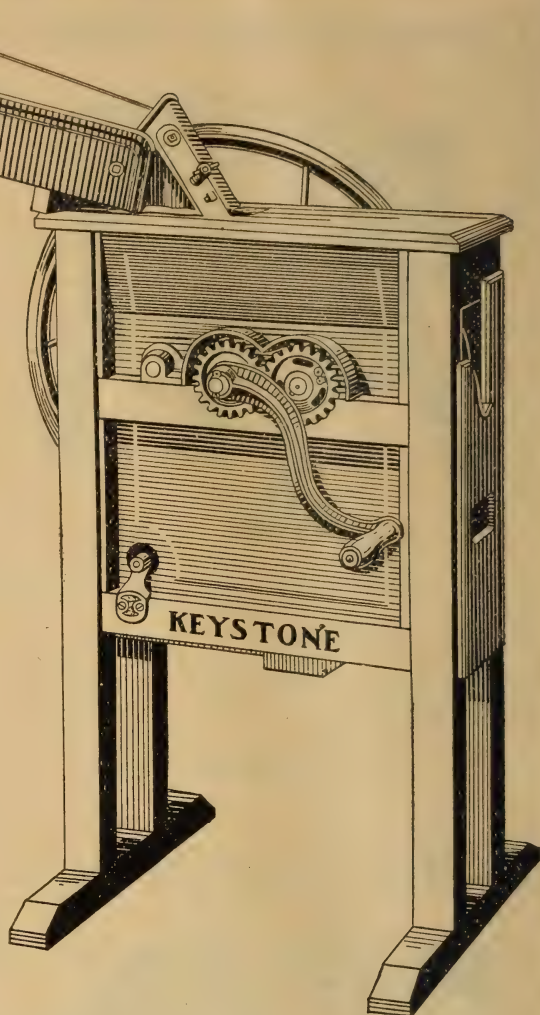


A finely constructed and serviceable machine, at a moderate price, and one which runs easily and works well on all sizes and kinds of corn

PRICE:

Plain,
\$6.50.

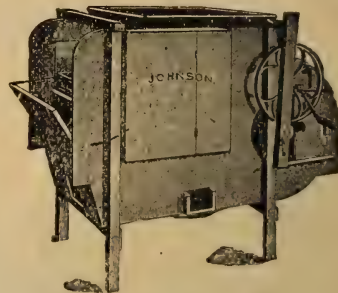
With separator,
\$7.50.



JOHNSON FAN MILL.

The fan mill is indispensable to a well-regulated grain barn. This mill runs the sound, clean grain to one side of the mill, while the sand and small seeds pass out at the other, and the heavy chaff and heads are caught in a receptacle behind the machine. It will not only clean grain, but also grass seed in the best manner.

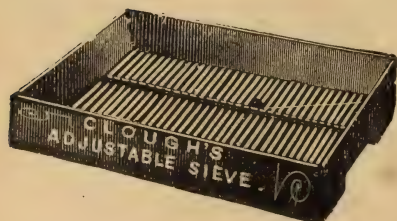
Price, \$16.00.

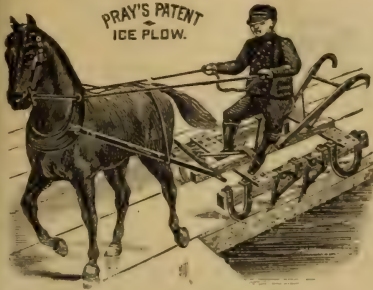


CLOUGH'S ADJUSTABLE SIEVE.

In offering this adjustable sieve to farmers and others, we know that they will find it useful and valuable for separating foul seeds from grain, and sifting out the small grain, thereby getting the most vigorous kernels for seed; also for cleaning and sorting beans, peas, etc.

Price, \$2.00.





PRAY'S PATENT ICE PLOW.

This plow is especially designed to meet the demand for a cheap and efficient ice cutter for farmers and dairymen. It will cut from 20 to 40 tons an hour, cutting the ice blocks of uniform size, which saves much labor when packing.

The Superiority of Pray's Ice Plow.

1st. The extra weight of the rider holds the plow to its work and allows the horse to be hitched much closer to the plow—an advantage where the pond is small and all the ice needed from the edge of the pond

2nd. It is the only plow that can be successfully used by one person. The draft back of runners omits the necessity of leader or rider.

3rd. It is the only plow that has an adjustable tooth.

4th. It is the only plow that works with runners.

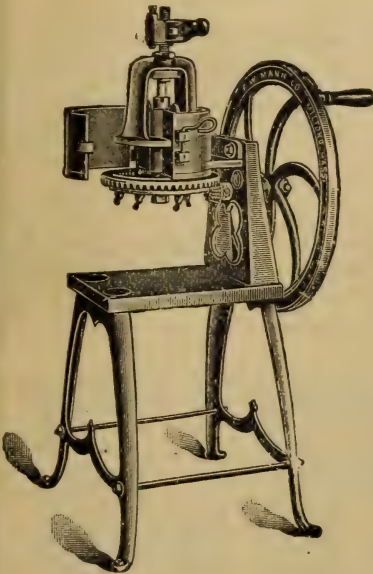
5th. It turns easier at the end of the row than any other plow.

6th. It cuts ice with more economy on a small pond than any other plow.

Upon a shallow pond where a saw cannot be used this plow is indispensable. A horse and one man can cut as much ice as ten men with saws.

WARRANTED TO WORK AS REPRESENTED.

Price, Four-Tooth Plow, \$12.00; Six-Tooth Plow, \$16.00; Eight-Tooth Plow, \$17.00; Ten-Tooth Plow, \$18.00.



No. 9.

Mann's Bone Cutters.

THE STANDARD OF EXCELLENCE.

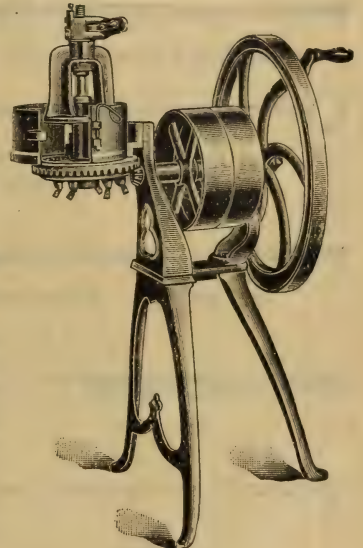
A Standard which has only been Obtained
by Years of Experience.

PRICE LIST.

NO DISCOUNT FROM THESE PRICES.

No. 5C	(with Crank Handle),	\$ 6.00
No. 5B	(with Balance Wheel),	8.00
No. 5BM	(with Bal. Wheel & Iron Stand),	10.40
No. 7	(with Balance Wheel),	12.00
No. 7 1-2	(Semi-power Machine),	16.00
No. 9	(Standard Bone Cutter),	18.40
No. 11	(Comb'n Power Cutter),	26.00
No. 12	(Small Power Cutter),	30.00
No. 15	(Large Power Cutter),	60.00
No. 14	(Large Power Cutter),	76.00

Send for Illustrated Catalogue.



No. 7 1-2.

STOVER HAND MILL.

In this mill are embodied all the good features of other hand grinding mills to which have been added universal burrs or grinding plates that are adjustable for grinding coarse or fine. This machine grinds oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well designed machine, is strong and well made throughout and of excellent finish; has a sixteen-inch fly wheel and is light running.

Shipping Weight, 40 pounds.

Capacity, 1 or 2 bushels per hour.

Price, \$5.00.



ICE TOOLS.



Bar Chisel. Price, \$3.50.

Used for trimming off any unevenness of the blocks when stowing ice in the house, and for spacing and straightening the seams.



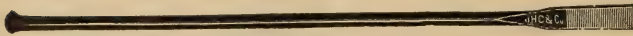
Breaking Bar. Price, \$3.50.

The pad end is blunt, having no sharp edge, and is used for "breaking off" in a groove. The chisel end is convenient in case a sharp edge is required, and for splitting off single cakes.



Splitting Fork. Price, \$4.00 and \$4.50.

These forks are made with long steel tines, tapered so as to give great wedging power in the plow-grooves without "shelling" the ice. Their weight makes them particularly useful in breaking off floats or large sheets from the ice field, and they cannot be excelled for splitting the floats into strips when the grooving is insufficiently deep or partially frozen.



Splitting Chisel. Price, \$2.25 and \$2.50.

These chisels are used to split off single cakes, either in the canal or on the platform, and they are handy for general use, being light in weight and having a blade of uniform taper on both sides.



**Ring Handle Splitting Chisel.
Price, \$2.50 and \$2.75.**



Ice Shaver. \$2.00 to \$2.75.

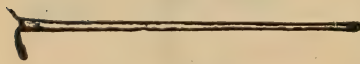
Shavers are used to shave ice into fine pieces, when delivered by the basket, for saloon or restaurant use, and for various other purposes.

Shaver teeth are beveled on one side only.



Ice Saw.

Our ice saws are made in the most superior manner. The teeth are extra long, and have a large bevel, causing them to cut rapidly.



Ice Hook.

Our ice hooks are manufactured of the best stock, and are heavily steeled, making them very stiff and strong, without being heavy and unhandy.

The puller or the pusher can be bent cold to any angle desired by properly placing the part between the jaws of a vice, if our standard needs to be varied for individual use.



Line Marker. Price, 90c.

The line marker is a simple affair, by which a scratch on the ice one-half inch deep can be made, using a straight board as a guide. The marker teeth are run in this shallow mark, thus making the first groove in marking out the field of ice.



Tongs.

These tongs are the *very best models* which experience can produce, and their quality cannot be excelled. All our tong points, which are of fine steel, are carefully tempered to hold sharp edges and to do long service.

The span of tongs is indicated in inches when they are open as wide as possible.

Write for Illustrated Catalogue of all Ice Tools.

The Stoddard Churn.

ONE OF THE MOST PERFECT CHURNS MADE.

The Stoddard Churn is made by hand in the most thorough manner and of kiln-dried white oak. It will last for years. The principle is concussion and not friction—has no floats or paddles inside. It is easily operated and easily cleaned. Perfect in construction, and having no parts liable to break or get out of order, it fully meets the requirements of large or small dairies.

No.		Mnfr.'s List.	Net Price.
1	10 gal., churns from 1 to 4 gals. cream,	\$ 9.00	\$ 8.25
2	15 gal., churns from 2 to 7 gals. cream,	9.50	8.75
3	20 gal., churns from 3 to 9 gals. cream,	10.75	9.50
4	25 gal., churns from 4 to 12 gals. cream,	12.00	11.50
5	35 gal., churns from 5 to 19 gals. cream,	14.00	13.00
5½	45 gal., churns from 5 to 20 gals. cream,	17.00	15.50
6	60 gal., churns from 6 to 28 gals. cream,	20.00	18.00

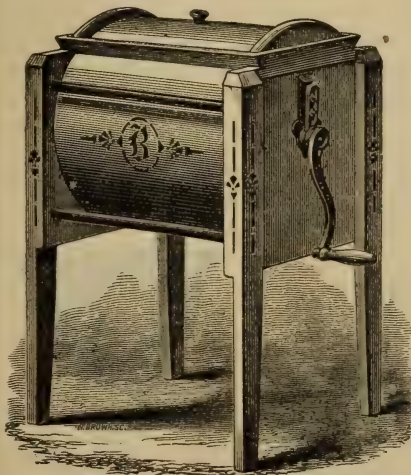


THE MAGIC CHURN.

The Magic Churn we offer to those desiring a low-priced barrel churn.

The churns are made of white oak, thoroughly seasoned and kiln dried. The cover fastening is simple and efficient.

No.		Mnfr.'s List.	Net Price.
0	6 gallon, churns from 1 to 3 gals. cream.....	\$ 8.00	\$ 4.25
1	10 gallon, churns from 1 to 5 gals. cream.....	9.00	5.00
2	15 gallon, churns from 1 to 7 gals. cream.....	10.00	5.50
3	20 gallon, churns from 2 to 9 gals. cream.....	11.00	6.00
4	25 gallon, churns from 2 to 12 gals. cream.....	14.00	7.50
5	35 gallon, churns from 3 to 16 gals. cream.....	16.00	8.75
6	60 gallon, churns from 6 to 22 gals. cream.....	22.00	11.00



CYLINDER CHURNS.

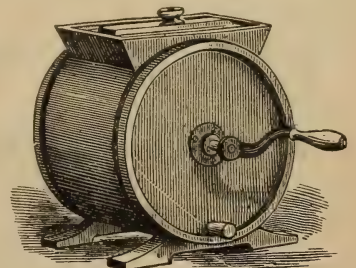
A favorite style of Churn which has been in use for many years.

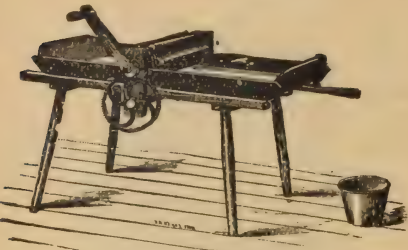
	Mnfr.'s List.	Net Price.
No. 1, capacity 2½ gallons.....	\$2.50	\$2.25
No. 2, " 4 ".....	3.00	2.50
No. 3, " 7 ".....	3.50	2.75
No. 4, capacity 10½ gallons.....	4.00	3.00

THE BLANCHARD CHURN.

The following are the leading merits of the BLANCHARD CHURN: Perfect quality of all materials used. Excellency of manufacture. Simplicity of construction, having no cog wheels or gearing. Durability. Ease of operation. The action of the dasher is such as to cause agitation of the cream by creating currents, and not by beating or by friction of the cream, which may injure the grain of the butter. Facility in removing the dasher and getting at the butter. Ease of cleaning, the form of construction making the inside without any inaccessible or invisible angles or corners.

	Mnfr.'s List.	Net Price.
No. 3, for up to about 2 gallons of cream,	\$ 6.00	\$4.50
No. 4, " " 4 " " "	7.00	5.00
No. 5, " " 6 " " "	8.00	5.75
No. 6, " " 12 " " "	10.00	7.00
No. 7, " " 16 " " "	12.00	8.50





THE

Waters Butter Worker.

Practical, efficient, durable. It combines more advantages than any other. The tray is removable and thus takes the place of the butter bowl.

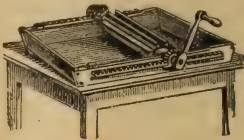
Will work butter in any condition satisfactorily. Made in sizes to suit any dairy or factory.

Size No.	Length of Tray.	Width of Tray.	Capacity.	Mnfr.'s List.	Net Price.
0.	27 in.	14 in.	1 to 15 lbs.	\$ 7.00	\$ 6.50
1.	36 in.	15 in.	5 to 30 lbs.	8.00	7.50
2.	36 in.	18 in.	5 to 40 lbs.	9.00	8.50
3.	39 in.	20 in.	5 to 50 lbs.	10.00	9.50
4.	48 in.	22 in.	10 to 75 lbs.	12.00	11.00

REID'S PATENT BUTTER WORKER.

These machines are all built of the best material.

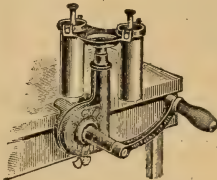
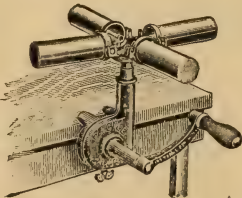
The iron part is galvanized, preventing rust.



No.	Size	Capacity	Mnfr.'s List.	Net Price.
No. 1.	Size, 23 x 36 inches, 2 1/2 inches deep inside; capacity, 50 lbs.,		\$10.00	\$8.00
No. 2.	" 20 x 36 " 2 1/2 " " " " " 30 "		8.00	6.50
No. 3.	" 17 x 27 " 2 1/2 " " " " " 20 "		7.00	5.50
No. 4.	" 14 x 23 " 2 1/2 " " " " " 10 "		6.00	4.75

Three pounds can be worked in any of the above machines, as well as a larger quantity. In buying a machine you should choose a size that will work the largest quantity that you will be likely to want to work at a time.

THE "FACILE" IMPROVED BABCOCK MILK TESTER.



The day for cheap, poorly-made Babcock Testers has gone by, and a demand has sprung up for a substantial and durable machine. It is for this reason that the "Facile" has been placed on the market, and no expense has been spared to make it complete in every way.

2 bottles.....	\$4.00	8 bottles.....	\$ 9.00
4 "	5.00	10 "	10.50
6 "	8.25	12 "	13.50

MORE'S

Pyramidal Milk Strainer.

Most perfect Milk Strainer ever offered to dairymen. Can be used on creamery cans, milk cans, small pans, etc. Cleans milk rapidly, will not clog, has large straining surface.

Strainer, with rest or funnel \$1.50

Strainer, with both rest and funnel..... 1.65

Extra rests or funnels, each..... .15



PARCHMENT BUTTER PAPER.

FOR WRAPPING AND COVERING BUTTER.

Better, cheaper and more convenient to use than ordinary muslin. **Price, 15c. per pound.**

Write for quotations for large quantities and for printing special designs.

COMBINATION BUTTER MOULDS.



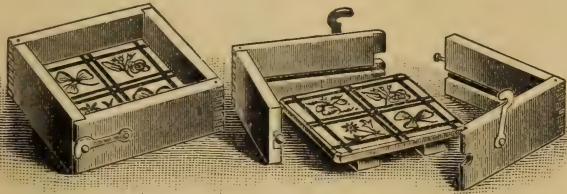
These moulds are expressly designed to meet the demand for strictly first-class, hand-carved designs.

The cut here shown represents No. 6, which holds two pounds, and is divided into eight $\frac{1}{4}$ -pound cakes.

Prints engraved to order, with ordinary designs, initials, or monogram, without extra charge, excepting that, should more than six letters be wanted on each cake, a charge of five cents per letter will be made for each letter in excess. Prices quoted on application for special or complicated designs or lettering.

No. of Print.	No. of Cakes.	Capacity in lbs.	Capacity of each Cake in ounces.	Dimensions of Moulds in inches.	Dimensions of each Cake.	Price.
2	4	2	8	11 x $3\frac{3}{4}$	$3\frac{3}{4}$ x $2\frac{3}{4}$	\$3.75
3	4	2	8	12 x 3	3 x 3	3.75
4	4	1	4	$4\frac{1}{2}$ x 5	$2\frac{1}{4}$ x $2\frac{1}{2}$	3.50
5	4	1	4	10 x $2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	3.75
6	8	2	4	10 x $4\frac{1}{2}$	$2\frac{1}{4}$ x $2\frac{1}{2}$	4.50
7	6	$1\frac{1}{2}$	4	10 x $3\frac{1}{2}$	$3\frac{1}{2}$ x $1\frac{3}{4}$	4.25
8	12	$1\frac{1}{4}$	2	12 x 4	2 x 2	5.00
9	16	1	1	10 x 3	$1\frac{1}{2}$ x $1\frac{1}{2}$	5.00
10	24	$1\frac{1}{2}$	1	10 x 4	$1\frac{1}{4}$ x $1\frac{1}{3}$	5.25
12	8	4	8	11 x 5	$2\frac{3}{4}$ x $2\frac{1}{2}$	4.50
20A	4	2	8	11 x $4\frac{1}{2}$	$3\frac{1}{2}$ x $2\frac{1}{2}$	3.75

BLANCHARD BUTTER MOULDS.



1-2 lb., two 1-4 lb. prints, 40c.; 1 lb., four 1-4 lb. prints, 50c.; 2 lbs., eight 1-4 lb. prints, 75c.

If engraved with initials, or any hand carving, add to the REGULAR PRICE, 25 cents for each cake so engraved.

If ordered sent by mail add 10c. for postage.

TUB COVER FASTENERS.

Made from tin; easily applied, easily withdrawn. Tin is turned back over head of nails; impossible for nails to drop out.

1,000 in a package. Price, 85c. per thousand.

BRUSHES.

We are in a position to furnish the best kind of brushes for dairy use, and recommend especially our line of can, separator and bottle brushes.

Bottle Brushes, each	25c. and 40c.	Separator Bowl, each	35c. and 50c.
Test Bottle, "	5c.	Separator Tube, "	8c.
Milk Can, "	50c.	Separator Cover Spouts, "	15c.
Separator, "	15c.		

SPECIAL PRICES FOR LARGE QUANTITIES.



No. 86. Black Bottle Brush, 40c.



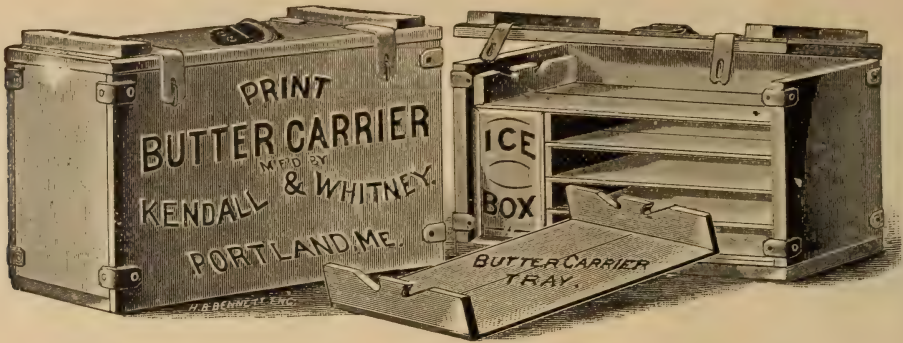
No. 70. Black Bottle Brush, 40c.



No. 63. White Bottle Brush, 25c.



Cover Spout Brush, 20c.



BUTTER CARRIERS.

These carriers are made of spruce and white wood and are very strong and durable, with trays so arranged that the butter is not marred in the least in handling. The ice box is made of zinc, and has two compartments, the top for ice and the bottom for the water as the ice melts, so that the ice is melted by air alone, thereby lasting much longer than if the ice rested in the water.

Each carrier is filled with long trays, and the capacity given is for half-pound prints of the standard creamery size.

Without Ice Box.	No. Trays.	Size.	Price.
12 lbs.	4	10¼ x 7¾ inches, 1½ inches deep, inside measure	\$1.85
24 "	4	10¼ x 14¾ " " " " "	2.25
30 "	4	10¼ x 18½ " " " " "	2.35
40 "	5	10¼ x 18½ " " " " "	2.50
50 "	6	10¼ x 18½ " " " " "	2.75

Price, complete with set of long trays, and ice box and short trays for summer use.

24 lbs.	\$3.00	40 "	\$3.25
30 "	3.10	50 "	3.50

The 12 lb. carrier, being very small, cannot be fitted with ice box.

Non Returnable Butter Shipping Boxes.

These boxes are furnished in shook, and are made in the following standard sizes. 25 boxes in a package.

10 lbs. per one hundred, with printed ends,	\$ 8.00	40 lbs. per one hundred, with printed ends,	\$14.00
20 " " " " " "	10.00	48 " " " " " "	16.50
32 " " " " " "	13.00	60 " " " " " "	17.50

Price, not printed, 50 cents per hundred less.

The "Boston" Aseptic Milking Tube.



For drawing milk from cows with sore or obstructed teats. Made from white metal, in 2½, 3, 3½, and 4 inch lengths, heavily plated with pure silver, and warranted equal to solid silver ones in every respect, at about one-fourth the cost.

Sent by mail to any address on receipt of price.

Price, each, 25 cents.

DE LAVAL CREAM SEPARATORS

Skim Cleanest, Have Largest Capacity, Turn Easiest, Are Easiest to Wash, Last the Longest.

DE LAVAL SEPARATORS ARE IN A CLASS BY THEMSELVES.



If you are milking even as few as two or three cows and are not using a De Laval Cream Separator you are wasting both quantity and quality of cream every day you go without one.

The De Laval saves enough over any gravity setting system in butter fat, quality of cream, sweet skim milk, labor, time and trouble, to pay for itself every six months.

The De Laval saves enough over other separators in closer skimming, in running heavier and smoother cream, skimming cool milk, greater capacity, easier cleaning, easier running and fewer repairs, to pay for itself every year.

The 1913 Improved De Laval saves enough over De Laval machines of five, ten, fifteen or twenty years ago, in closer separation under all conditions, greater capacity, easier running and greater mechanical perfection, to pay for itself every two years.

If you are a cow owner you ought to have a copy of the De Laval Dairy Handbook. Free upon request.

We will be glad to give you a free trial, and we have an arrangement whereby the purchaser, if he desires, may make a partial payment at time of purchase and pay the balance on such easy terms that it will pay for itself out of its own savings.

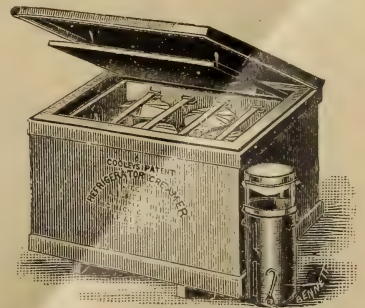
EXCHANGE ALLOWED ON ALL OLD MACHINES.

We will be glad to mail you a Catalogue.

COOLEY CREAMERS.

"Refrigerator Style."

"Refrigerator" style has *double walls*, with two air spaces and two covers, and not being readily affected by heat or cold will require much less ice in the summer season than a single wall tank, and the water will not freeze in the winter season.



Price of Tanks, less Cans:

	Price.		Price
No. 2, for four cans	\$16.00	No. 6, for twelve cans.....	\$25.00
No. 3, for six cans	18.00	No. 7, for fourteen cans	29.00
No. 4, for eight cans	21.00	No. 8, for sixteen cans	33.00
No. 5, for ten cans	23.50		

COOLEY CANS, SEPARATE FROM TANKS, EACH, \$2.15.

Milk or Cream Bottles.

Did it ever occur to you that you should investigate the source of your milk supply and the process by which it is handled and delivered?

If you will do so, you will refuse to receive milk in any other vessel than **glass bottles**, as it is the only way by which you can get milk that has not come in contact with the

numberless street odors, flies, and many other undesirable influences.

The "COMMON SENSE" Bottle, capped by a strong, clean paper cap, is the best, and no taint is possible in milk put up in these bottles.



Common Sense,
Paper Cap.

1-2 Pint, Common Sense,	
1 Pint, Common Sense,	
1 Quart, Common Sense,	
2 Quart, Common Sense,	
1-2 Pint, Lightning (tin top),	
1 Pint, Lightning "	
1 Quart, Lightning "	
2 Quart, Lightning "	

Per Dozen.

\$.50
.60
.75
1.25
.60
.70
.85
1.35



Lightning,
Tin Top.

Price for gross or more quoted on application.

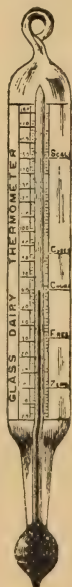
"TESTED" GLASS WARE FOR BABCOCK TEST.

Lactometer (Fig. 91), for testing quality of milk,	Each. \$.50
Floating Dairy Thermometer (Fig. 93),	.25
Standard Floating Dairy Thermometer (Fig. 94),	.50
Flange Dairy Thermometer (Fig. 92),	.20
Cream Test Tubes,	.25
Babcock Test Bottles (for milk), 10 to 25 %,	.30
Babcock Test Bottles (for cream), 25 to 50 %,	.35

Pipettes,	Each. \$.25
Acid Measures,	.30
2-oz. Graduates,	.30
4-oz. Graduates,	.40
6-oz. Graduates,	.50
8-oz. Graduates,	.60



91



93



94



92



Cream Bottle.



Milk Bottle.



Acid Measure.



Graduate.



Pipette.

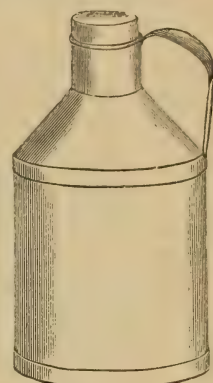
MILK CANS.

We can furnish Tin, Wood Stopper Milk Cans in any style, size or quantity.

20 Quart and 40 Quart Shipping Cans.

The parts of all our shipping cans are made of steel and heavily tinned by the hand dipping process, after they are formed.

Prices furnished on application.

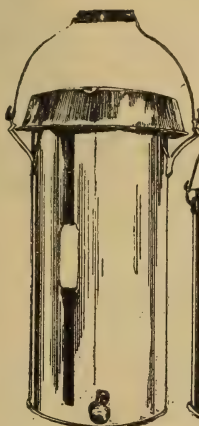


Milk Can.

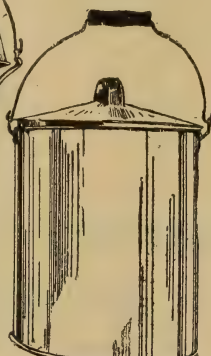
CREAMERY CANS.



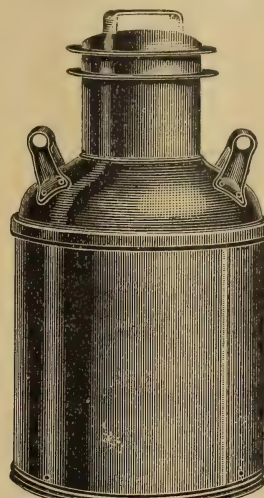
"K. & W." Can.



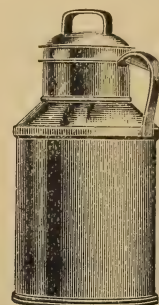
Cooley Can.



Cream Pail.



40 Qt. Shipping Can.

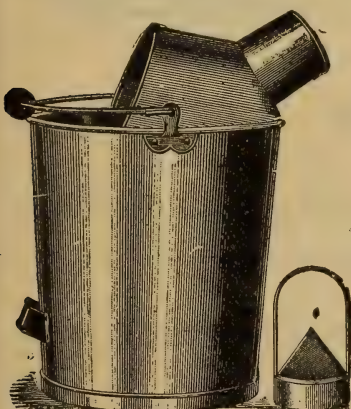


20 Qt. Shipping Can.

"K. & W.,"	Each,	\$1.25
Cooley,	"	2.15
Gross,	"	1.75

CREAM PAILS.

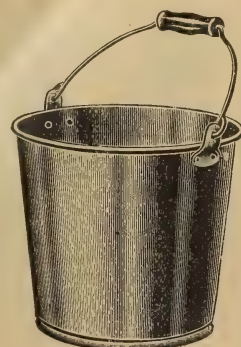
5 Gallon,	\$1.00	10 Gallon,	\$1.25
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THE EUREKA STRAINER PAIL, With Removable Strainer. STRAINS RAPIDLY AND THOROUGHLY.

Sediment does not collect on the strainer, but passes beyond and is removed when the strainer is taken out.

Price, 14 Qt., \$1.25.



PLAIN MILK PAILS.

1X 10 Qt.,	\$.25	2X 10 Qt.,	\$.30	3X 10 Qt.,	\$.40
1X 12 "	.30	2X 12 "	.35	3X 12 "	.45
1X 14 "	.35	2X 14 "	.45	3X 14 "	.50

CHAMPION MILK COOLER AND AERATOR.

A perfect aerator, removing all flavors arising from excessive cabbage, turnip or silo rations.

A complete deodorizer, removing the animal heat or cowy taste and all odors arising from the absorption by the milk of stable or other unpleasant gases.

A thorough cooler, reducing the temperature of the milk in one minute nearly to the temperature of the cooling medium.

It is equally well adapted to the use of any cooling medium, either running water, ice water, or, if a very low temperature is not required, ordinary well or spring water.

Is automatic, requiring no attention while in operation.

Is low down, combining greatest cooling surface with least height.

It is as simple in construction and easily cleaned as a pail—no joints or seams for the harboring of impurities and no crooked pipes to rust.



No.	Capacity of Milk Receiver.	Size of Dairy.	Takes Care of	Price.
2.	18 quarts	10 to 25 cows	3 milkers	\$6.00
3.	34 "	25 to 50 "	5 "	6.50
4.	52 "	50 to 100 "	8 "	8.00



IMPROVED Circular Spring Balance Milk Scales,

USED BY MOST DAIRYMEN.

Weighing up to 60 pounds. Price, \$3.50.

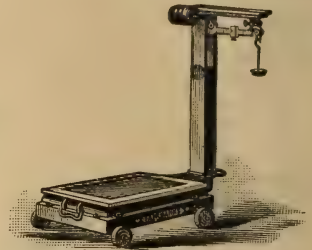
" " " 30 " " 2.50.

DAIRY SCALES.

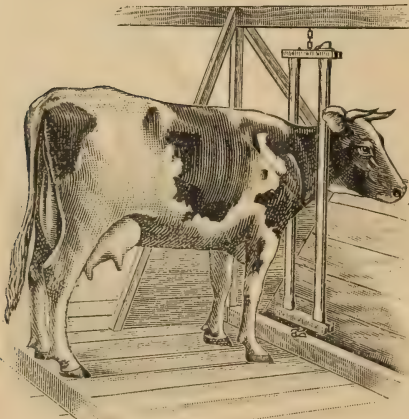
FULL LINE—ALL SIZES.

PLATFORM SCALES FOR FARMERS AND DAIRYMEN.

Write for quotations.



Robertson's Patent Chain Hanging Stanchions.



Practical, Safe and Durable, and Afford Comfort to the Animal.

Made with either rigid or adjustable neck space.

A pleased customer is the best possible endorsement that an article can have. These stanchions are in use by thousands of the most successful dairymen and farmers all over the country, who have had practical experience and know that these stanchions are not experiments, but are "best by test".

WRITE FOR PRICE LIST.



Butter Tubs.

We are in a position to furnish superior spruce butter tubs, in any quantity desired. Tubs are kept in stock in 10, 20, 30 and 50 pound sizes, and shipments can be promptly made. Special prices for large quantities.

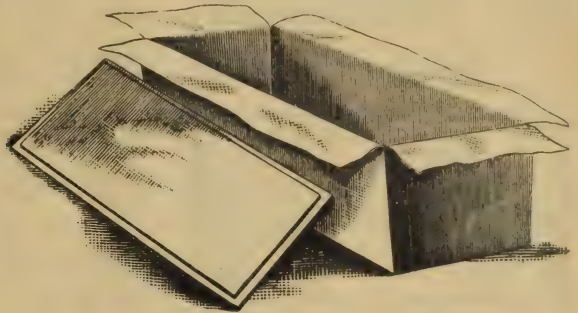
Write for quotations.

Improved Oblong Butter Box,

With Parchment Lining.

The box holds five pounds of packed butter, is nearly brick shaped, flaring so the butter will turn out, and is in the best possible shape to cut up for the table in square-like prints, and free from waste.

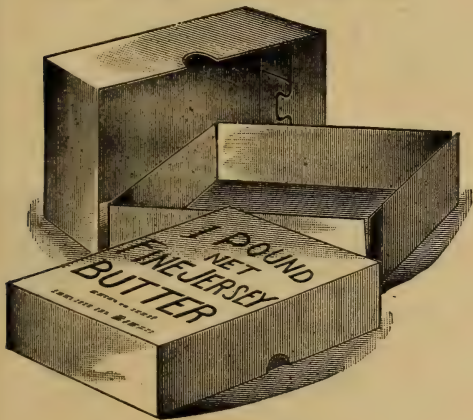
Write for prices.



ROUND BUTTER BOX.

This is a round, firm, clean and cheap package in which to send butter to market. The wood from which it is made is thoroughly steamed before working, which makes it as nearly odorless and tasteless as possible.

Write for prices.



ONE POUND

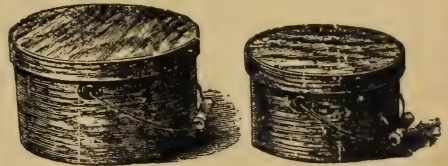
Folding Paraffined Paper Butter Boxes.

ODORLESS AND TASTELESS.

Write for quotations.

Oak Bail Boxes.

	Price Each.
Large,	40c.
Small,	30c.



Butter Ladles, 15c.

Plain Butter Spades, 10c.

Creased Butter Spades, 10c.

Creased (White Holly) Spades, 15c.



Small's Calf Feeder.

This is a device by which the calf may be fed away from its dam, and with any mixture of milk, skim milk, warm water, porridge (or whatever else is healthful and desirable), with convenience and in the natural way with that admixture of saliva which does not occur when calves drink from a pail.

Price, \$2.50. Extra Nipples, 25c. each.

COMMON SENSE CALF FEEDER.



One of the best made, most durable and convenient feeders on the market. Has the endorsement of many of the leading dairymen and stock raisers.

PRICE.
Single Calf and Colt Feeder, \$5.00
Double " " " 6.00
Extra Nipples, .25



RICE'S WEANER.

For preventing calves and cows sucking themselves or each other.

Price, { No. 1, for calves, 30c.,
No. 2, for heifers, 50c.,
No. 3, for cows, 75c., } postpaid.



WIRE MILK BOTTLE CARRIERS.

2	quarts, round wire, each,	\$.50
4	" " " "	.55
6	" " " "	.65
8	" " " "	.75
6	" flat wire "	.85
8	" " " "	1.00



HAM'S TUBULAR

"Search Light" Lanterns.

No. 2 Burner, one-inch Wick, finished in Blue Japan.

Just the lamp you want where a strong light is required and to be spread over a large space, as in creameries, stables, saw and planing mills, warehouses, packing houses, workshops, picnic grounds, lawns, summer resorts, etc. The lamp throws a brilliant and steady light, and will burn as well out of doors as inside, without smoking or flickering, and is not affected by the wind or strong drafts.

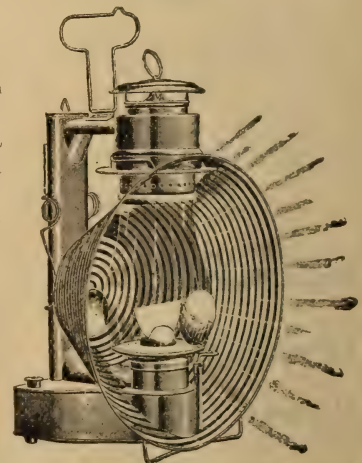
We have in stock a full line of all the leading lanterns. Prices furnished on application.



"NUSTYLE" LANTERN.

Neater, Trimmer, Better.
More convenient than any tubular lantern on the market.

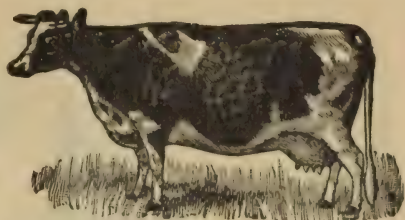
Can't spill oil, can't blow out.



"SEARCH LIGHT" LANTERN.

KOW-KURE.

A MEDICINE FOR COWS ONLY.



It acts upon the digestive, generating and milk-secreting organs, keeping the entire system toned up and in perfect working order; prevents Abortion, cures Barrenness, removes Retained Afterbirth, stops the Scours, cures Milk Fever, Caked Udder, Swelling in the Bag, cures cows "off their feed", improves the quality of milk and **MAKES COWS PAY.** **Price, 50c. and \$1.00 per can.**

GRANGE GARGET REMEDY.

Positively cures Garget without in any way injuring the cow. **Price, 50c. per can.**

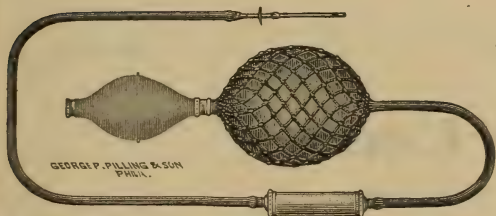
BAG BALM.

For Sore Teats, Caked Udder and inflammation. **Price, 50c. per can.**

COW'S RELIEF.

A standard remedy among dairymen. A sure relief for Caked Udder, and will keep bag and teats free from soreness. **Price, 50c. and \$1.00 per can.**

THE PILLING MILK FEVER OUTFIT FOR STERILIZED AIR TREATMENT.



This Treatment has cured 97 per cent. of all Cases Treated.

Recommended by the Bureau of Animal Industry of the United States Government Department of Agriculture.

The outfit consists of the instrument, a roll of tape, a package of carbolized cotton, and full directions.

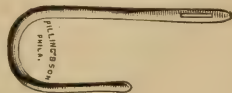
Price, \$3.00.

PILLING LEAD PROBE.

WITH FULL DIRECTIONS.

For the treatment of obstructed teats, also for enlarging the opening.

Price, postpaid, 25 cents each.



PILLING TEAT EXPANDER.

For hard milking cows.

Price, postpaid, 50 cents each.

PILLING HARD RUBBER TEAT PLUG.

Especially designed for two purposes; first, to prevent dropping of milk in cows where there is relaxation of the little muscle at the end of the teat and consequent leakage of milk; and secondly, to dilate the canal of the teat above the muscle in cases where hard milking is due to contraction of this part of the canal.



Price, postpaid, 50 cents each.

OX MUZZLES.



Small, per pair, 30c.
Large, " " 40c.

COW BELLS.



No. 1, 45c.
No. 2, 35c.
No. 3, 30c.
No. 4, 25c.

WOOD BOWLS.



OILED.		PLAIN.	
11 in.,	10c.	12 in.,	15c.
13 "	20c.	14 "	25c.
15 "	30c.	16 "	30c.
17 "	45c.	18 "	45c.
19 "	60c.	20 "	65c.
21 "	80c.	22 "	80c.

WOOD TRAYS.



No. 0,	50c.
No. 1,	60c.
No. 2,	80c.
No. 3,	90c.
No. 4,	\$1.00

SIEVES.

Wire Sieves, 12 inches,	Price, each, 20 cents.
Wire Sieves, 13 "	" " 25 "
Wire Sieves, 14 "	" " 30 "



WOOD, MILK OR CREAM BOTTLE CASES.

The case is designed to put the bottle in when filled with milk for delivery. The rack inside is removable for the purpose of cleaning.

Quart case, holding 12 quart bottles,	. . . . .	50 cts.
Pint " " 12 pint "	. . . . .	45 cts.

Milk Bottle Caps.

No. 1 and No. 2 size, plain or printed caps, 25c. per 1,000.
In cases of 5,000, \$1.10 per case.
No. 1 and No. 2 size, plain or printed "lip" caps, 25c. per 1,000.
In cases of 5,000, \$1.10 per case
Special price on barrels containing 50,000 caps.

ACID—For Babcock Test.

Pure, Clear, Free from Specks.

We guarantee this Acid to be of proper strength for making tests.

By the pound or in carboys. Price on application.

WYANDOTTE DAIRYMEN'S CLEANSER AND CLEANER.

A powder specially compounded for use in the dairy and creamery for washing all dairy utensils, glass and tin ware, in a most satisfactory and sanitary manner. The use of this powder means absolute cleanliness.

PRICE.

5 lb. bags, 25c. each. 80 lb. kegs, \$3.20 each. 280 lb. barrels, \$8.40 each.

CHR. HANSEN'S DANISH BUTTER COLOR.

The Most Uniform, the Purest and the Most Natural Shade.

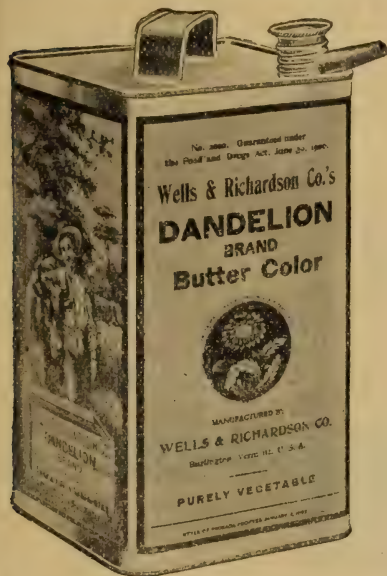
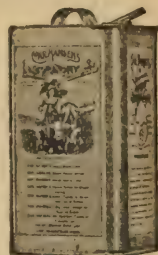
Made with the finest imported vegetable oil.

To butter makers desiring a pure, vegetable butter color, we do not hesitate to recommend Hansen's Danish as unquestionably the best in every respect.

Its high quality has never been approached by any competing preparation, and many shippers of the finest butter demand the exclusive use by their butter makers.

Price List.

Small size,	to color about	500 lbs.	.....	\$ .25
Medium size,	"	1250 lbs.	.....	.50
Large size,	"	2800 lbs.	.....	1.00
Cans,	1 gallon each,		.....	2.50



WELLS, RICHARDSON & CO.'S Dandelion Brand Butter Color.

PURELY VEGETABLE.

Will not become rancid.

Will not color the buttermilk.

Gives a bright June color.

Always gives satisfaction.

Price List.

Small size,	4 ozs., to color about	500 lbs.	.....	\$ .25
Medium size,	10 " " "	1250 lbs.	.....	.50
Large size,	24 " " "	2800 lbs.	.....	1.00
Cans,	1 gallon each,		.....	2.50

Hansen's Danish Rennet Extract and Rennet Tablets.

FOR CHEESE MAKING.

Always of the same strength, entirely preservable, separates the cheese matter completely, and gives the greatest quantity possible.

Price, can of 200 tablets, \$2.50.

Chr. Hansen's Danish Dry Lactic Ferment.

FOR RIPENING CREAM AND MILK.

PRICE LIST.

LARGE PACKAGE. —Single package, by mail.....	\$2.25
Three packages, by mail.....	6.00
SMALL PACKAGE. —Single package, by mail.....	1.00
Three packages, by mail.....	2.25

Mounted Grindstones.

The Wilcox, Sampson and Tubular Frame,

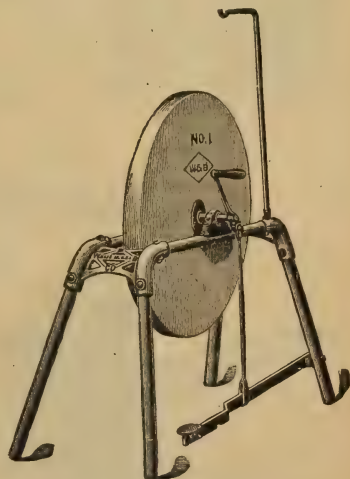
WITH TREADLE AND CRANK TO WORK EITHER BY HAND OR FOOT.

Strong, Durable Frames,

—ALSO—

Unmounted Stones, all sizes and weights, and a full line of Fixtures.

Write for Prices.



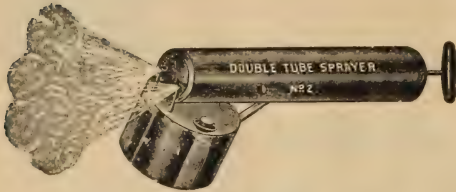
TUBULAR FRAME STONE.

SPRAYERS AND POWDER GUNS.

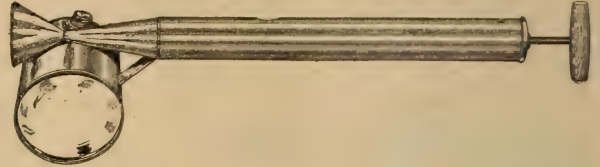
For Spraying all Insecticides on Potato Vines, Shrubs, Small Trees, House Plants, Live Stock and Poultry.

A Great Labor Saver on the Farm and in every Garden, Barn, Greenhouse, Orchard and Henery.

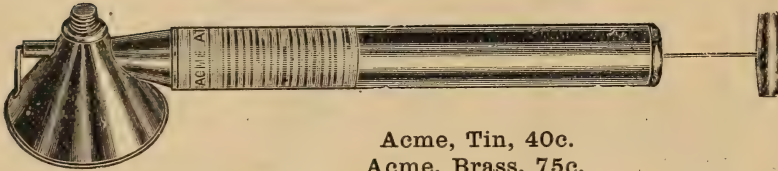
Will apply the finest possible spray on any object desired, and exterminate any kind of insect life.



Perfection, Tin, Double Tube,
Galvanized Tank, 50c.



"K. & W." Tin, 40c.



Acme, Tin, 40c.
Acme, Brass, 75c.

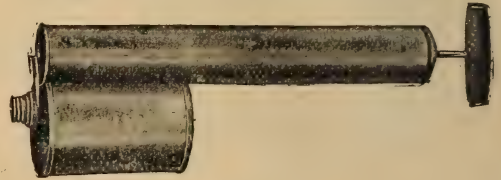


LEGGETT'S
CHAMPION
DRY
POWDER
GUN

LEGGETT'S CHAMPION
DRY POWDER GUN.

Will cover two rows of potatoes at once, as fast as a man walks. Adjustable to any width of row. Distributes Paris green, hellebore, sulphur, lime, "fungiroid", tobacco dust, etc.

Price, \$8.00.



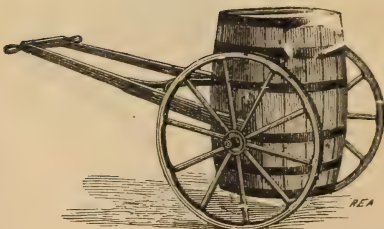
No. 21A, Tin, 40c.



Acme Powder Gun, 75c.

WATER BARREL TRUCK, ETC.

Combined Sprinkler and Hand-Cart.



Truck without barrel, but including one pair trunnions,	\$ 8.50
Truck and barrel, complete, wheel 2½-in. tire,	11.25
Truck and barrel with sprinkler,	14.75
Truck and barrel with hand-cart box,	14.50
Truck and barrel with leaf-rack,	16.75
Barrel trunnions, per pair, . . . . .	.40



**We Ask Your Careful Examination
of the Following Complete and Up-
to-Date Stock of : : : :**

**Atomizers, Sprayers, Spray Pumps, Walking Plows, Sulky
Plows, Disc Harrows, Spring Tooth Harrows, Spike Tooth
Harrows, Hand Cultivators, Riding Cultivators, Wheel
Hoes, Seed Drills, Seed Sowers, Fertilizer Drills, Fertilizer
Sowers, Grain Drills, Weeders, Potato Hoes, Hand Garden
Cultivators, Manure Spreaders, Land Rollers, Corn Planters,
Potato Planters, Mowers, Rakes, Tedders, Corn Binders,
Grain Binders, Potato Diggers, Threshers, Hay Presses,
Gasoline Engines, Saw Machines, Feed Mills, Corn Shellers,
Ensilage Cutters, Feed Cutters, Root Cutters, Fan Mills,
Cider Mills, Litter Carriers, etc.**

**This line we intend to have in stock at
all times, and we solicit your valued orders
which we will endeavor to ship promptly**

 WRITE FOR PRICES 



Special Attention is Called to
our line of

R E P A I R S

FOR

SPRAY PUMPS

: : : INCLUDING : : :

Nozzles, Steel and Bamboo Extensions, Hose,
Couplings, Agitators, Valves, Rods, Bushings,
Packings, etc. Also

“ E X T R A S ”

— FOR —

Cultivators, Seeders, Harrows, Plows, Grain
and Fertilizer Drills, Spreaders, Planters,
Rollers, Mowers, Rakes, Tedders, Diggers,
Binders, Hay Presses, Ensilage Cutters, Feed
Mills, Gasoline Engines, etc.

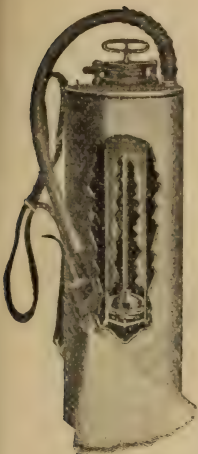
CAREFUL ATTENTION GIVEN ALL ORDERS
FOR MACHINE EXTRAS

"AUTO-SPRAY."

A practical compressed air sprayer, indispensable in the fullest variety for spraying shrubs, growing crops, greenhouses, etc. The pump is of large capacity, and the pumpings of eight or twelve strokes of the plunger will charge the tank and deliver the solution under high pressure. Capacity of tank, three gallons of solution. Furnished in brass or galvanized steel. Style with auto-pop recommended.

PRICES.

Auto-Spray No. 1A.	Brass tank (with stop-cock),	\$6.75
Auto-Spray No. 1B.	Brass tank (with auto-pop),	7.25
Auto-Spray No. 1C.	Galvanized tank (with stop-cock),	4.50
Auto-Spray No. 1D.	Galvanized tank (with auto-pop),	5.00
2-ft. Brass Extension,		.45
Brass Elbow,		.30



"AUTO-SPRAY."



AUTO-POP.



AUTO EXTENSION.



STOP-COCK.

"PERFECTION" SPRAYER.

Built on the best lines, of high grade material and with the idea of turning out a spray which has none of the faults and defects so common in many Knapsack sprayers heretofore on the market.

The tanks are made of heavier metal than has ever been used in sprayers of this kind, are lock seamed at the corners to convex heads of metal two guages heavier than the sides, a single seam runs lengthwise of the tank. This seam is reinforced by rivets, making the tank practically unbreakable. The pump is 1 3/4-inch seamless brass tubing with a brass valve, and is sealed into the top of the tank with heavy threads, following the construction used in the best makes of fire extinguishers. The pump rod is 5-16-inch and is fitted with leather and special metal expanders.

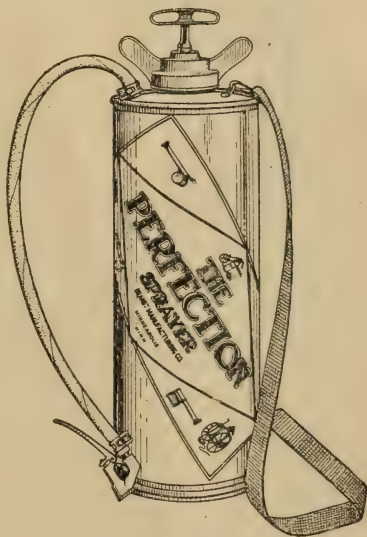
The hose is attached to the sprayer at an angle, so that it will not kink and become cracked and broken. The shoulder strap is attached with snaps and can be quickly and easily removed. The hose is 3/8-inch 5-ply cloth inserted and is equipped with automatic shut-off nozzle.

This sprayer will handle whitewash, water paints, Bordeaux mixtures, etc., perfectly.

For whitewash and all heavy mixtures it is necessary to use a "W. W." cap in nozzle, which is furnished with sprayers.

These sprayers are made in galvanized steel or brass as ordered. Weight, 9 pounds empty. All sprayers tested to 60 pounds before leaving factory.

Price, galvanized steel, \$5.00; all brass, \$7.50.



"KANT-KLOG." Style G.

"KANT-KLOG."

Sprayer body is made of heavy polished brass or galvanized steel, as desired. Top and bottom are dome shaped, joined to body under heavy pressure, making a complete double seam. The body is supported and further strengthened by a heavy steel band around the bottom.

Price of Style G, with galvanized steel body, brass air pump, hose, escape valve, "Kant-Klog" nozzle, spring shut-off and carrier strap,

Polished Brass Body, with same attachments,

3-ft. Brass Extension,

Brass Elbow,

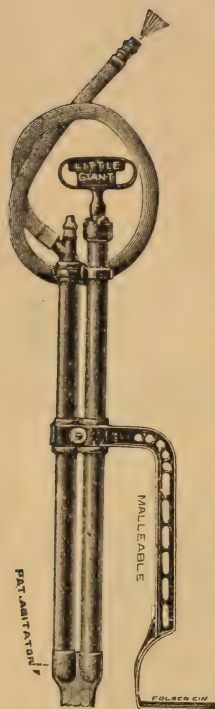
\$4.00

6.00

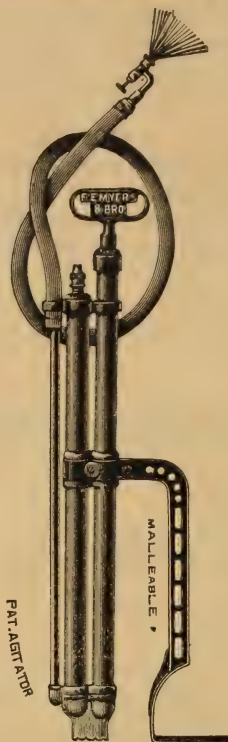
.40

.40

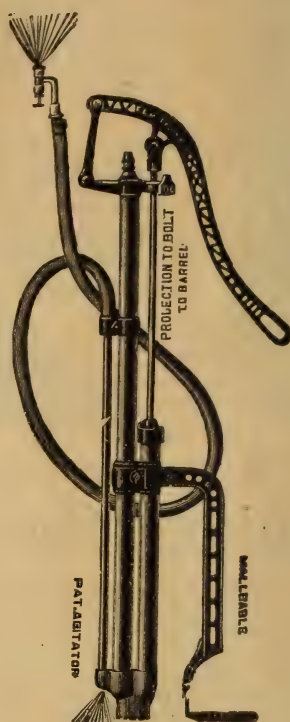
SPRAY PUMPS.



No. 327 1-2.



No. 325.



No. 324.

No. 327 1-2. Little Giant Brass Spray Pump, with agitator, complete with hose and Imperial combination fine and coarse spray and solid stream nozzle. **Price, \$2.50.**

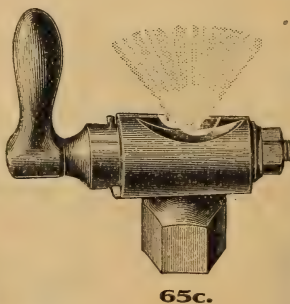
No. 325. Myers Imperial Brass Spray Pump, with agitator, complete with hose and graduating Vermorel fine and coarse spray and solid stream nozzle and malleable foot rest. **Price, \$3.00.**

No. 324. Myers Lever Brass Spray Pump, with agitator, complete with hose and graduating Vermorel fine and coarse spray and solid stream nozzle. **Price, \$3.75.**

Price, fitted with Bordeaux nozzle for spraying whitewash, **65c.** additional.

Bordeaux Nozzle.

Imperial Nozzle.



65c.

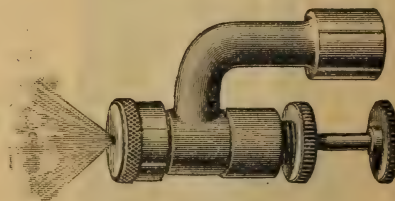
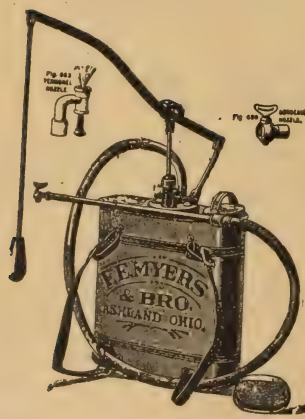


35c.

Cyclone Nozzle.



50c.

Myers Graduating Spray Nozzle.
65c.

Myers Knapsack Spray Pump.

Long Distance Nozzle.
65c.8-ft. Pipe
Extension.
40c.

SPRAY PUMPS.

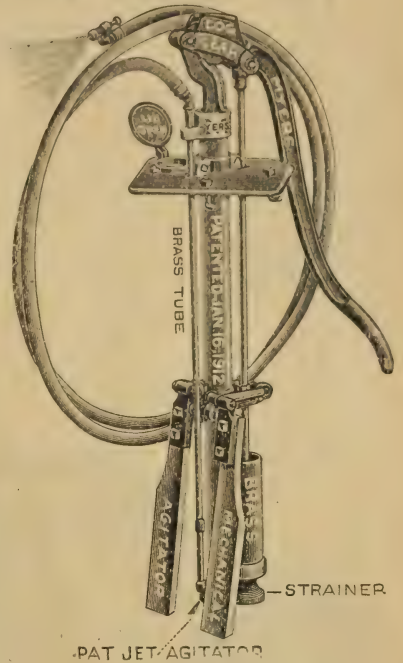
No. R318B. A spray pump of a construction that is the very best in all its parts, being self-contained and ready for operation, when bolted to the barrel, and is so made that it may be attached to the **end** or the **side** of the barrel, working equally well in either position.

Has bronze ball valves and brass seats; the plunger, cylinder, and discharge pipe are all brass. The air chamber is 30 inches in length, enabling the pump to throw a powerful, uniform, constant and elastic spray. Equipped with 15 feet of best quality rubber hose.

Price (without barrel), **\$8.00**

Myers O. K. The handle is wrought steel, with adjustable stroke, so as to enable the operator to get up a pressure of 200 lbs. or more if necessary. It is fitted for two leads of discharge hose.

Price—(Without hose or barrel), but with graduating spray nozzles, and couplings, **\$13.50**
Superior hose, per foot, **.12**



No. R318B.

No. 329. Whitewash, Cold Water Painting Machine and General Purpose Sprayer, with patent double agitator; a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom, so as to set steady in operation. The cover is removable, is held securely in place by two spring wire catches, one on each side, which holds the cover tight and prevents any spilling or splashing of the liquid. Holds 7 gallons and is fitted with Bordeaux nozzle, brass ball valves, and has both jet and dasher agitator.

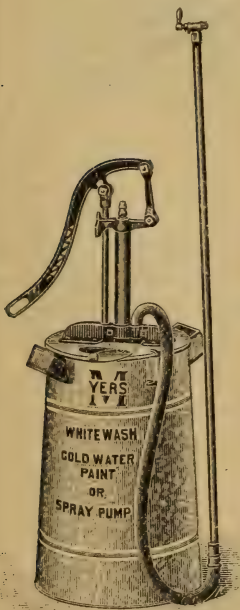
Price, \$7.00

No. 330. Myers Knapsack Spray Pump, fitted with 5 feet of $\frac{1}{2}$ -inch hose, pipe extension and Bordeaux or graduating Vermorel spray nozzle, which can be graduated from a fine mist spray to a solid stream, or shut off entirely.

Price, \$5.75

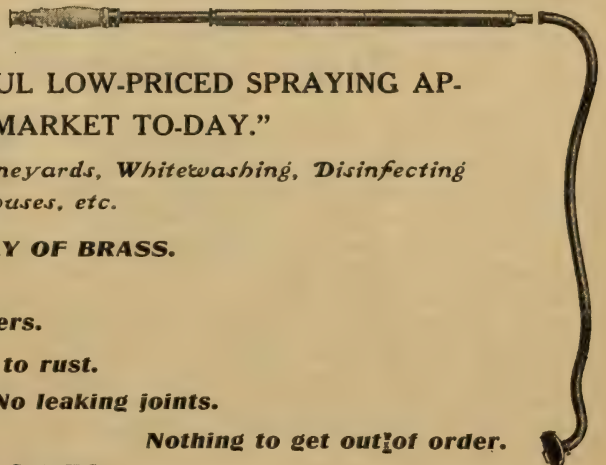
No. 331. Myers Perfect Knapsack Spray Pump, made with **Copper Tank**. Complete with hose, stop-cock, pipe extension and Bordeaux or graduating Vermorel nozzle.

Price, \$9.00



No. 329.

THE STANDARD SPRAY PUMP.



"THE BEST AND MOST POWERFUL LOW-PRICED SPRAYING APPARATUS ON THE MARKET TO-DAY."

For Spraying Orchards, Gardens, Vineyards, Whitewashing, Disinfecting Chicken Houses, etc.

MADE ENTIRELY OF BRASS.

With two solid brass ball valves.

No leather suckers or washers.

No castings to rust.

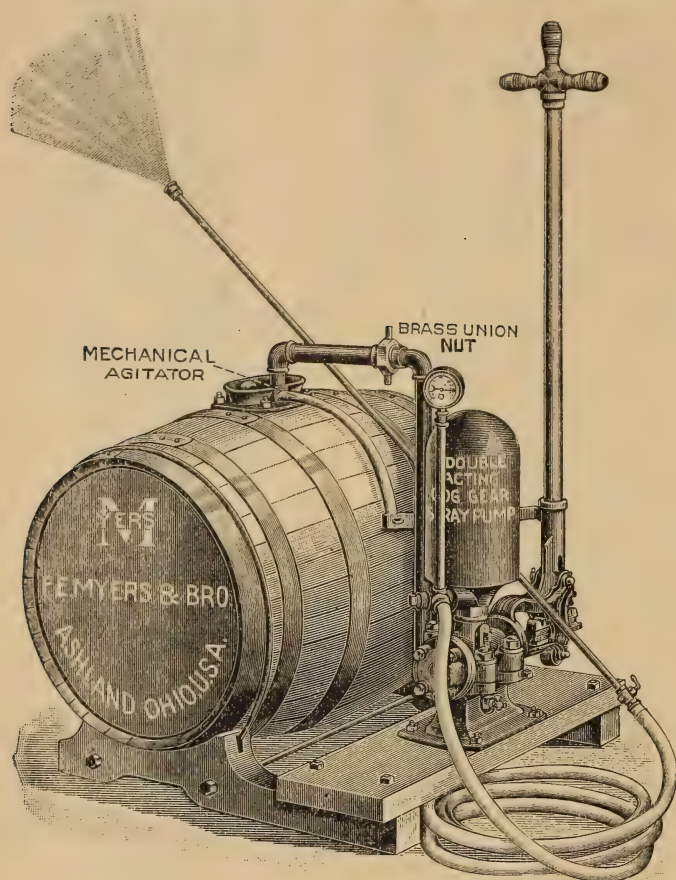
No leaking joints.

Nothing to get out of order.

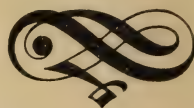
PRICE, \$4.50.

The Myers, Double Acting Cog Gear, Complete Spray Pump Outfit.

Mounted on Skids with 50 Gallon Barrel and Mechanical Agitator.



With brass valves and ground bevel brass seats, 2-inch seamless brass removable cylinder, hemp packed plunger.



SPECIAL FEATURES: Cog Gear Movement, increased leverage adapted for spraying under heavy pressure, mounted complete, occupying smallest possible space. Capacity sufficient for 8 nozzles; well adapted for spraying potatoes.

PRICE.

No. R316B, pump complete, 50 gallon barrel mounted on skids, with pressure gauge, one 15 foot lead, $\frac{1}{2}$ -inch 7-ply discharge hose, one Fembro nozzle, one 8-foot pipe extension with lever shut-off and mechanical agitator,

\$40.00

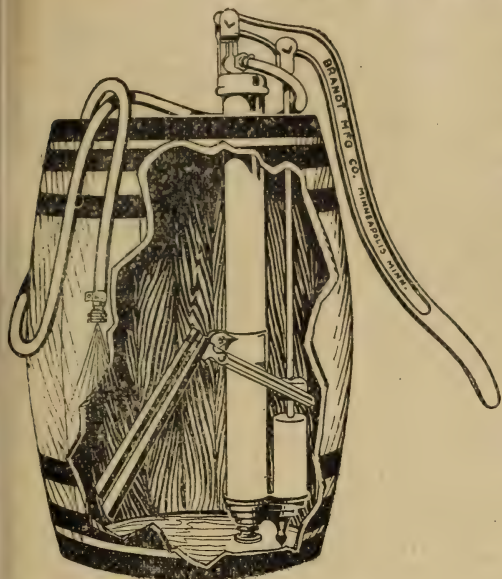
THE "JASMIN" CONTROLLER.

A new way of controlling the flow of the liquid through bamboo poles, iron pipes and extensions of every sort used with spraying pumps and outfits. It attaches to end of pole in place of the old stop-cock. The hose attaches at an angle of 45 degrees and is not liable to bend and break as with the old forms of connection. The flow of liquid is controlled by a one-quarter turn of the wood handle. When using it, the operator does not have to take his eyes off of his work, but shuts off the flow of liquid instantly when spraying is finished, thus saving the cost of the controller many times over. Made of brass, fits $\frac{1}{4}$ -in. pipe.

Price, \$1.50.



"KING" PUMPS AND OUTFITS.



Made for orchards where the trees are large and a great quantity of liquid is to be handled. These pumps are built in three sizes, as shown below, and are so arranged that they may be mounted in any barrel and can be adjusted to varying heights. They have extremely large air chambers, which insure a uniform pressure at the nozzle, large cylinders which give great capacity, and removable ball valves which enable the user to keep pump in good working condition without taking it apart. These pumps have self-oiling plungers and are constructed so that the packing may be tightened without taking the plunger out of the cylinder. No leather or rubbers are used in the pumps; the packing is specially prepared and will withstand the action of spraying chemicals longer than any other material and can be replaced in a few minutes at a nominal cost. The pumps have following dimensions. No 4 has $1\frac{3}{4}$ -in. cylinder; 2-in. air chamber and fastens to chime of barrel. No. 5 has 2-in. cylinder, $2\frac{1}{2}$ -in. air chamber and fastens to end of barrel. No 6 has $2\frac{1}{2}$ -in. cylinder and 3-in. air chamber and fastens to end of barrel. Nos. 5 and 6 have door castings to cover filling hole, which make it unnecessary to cut more than one hole in the barrel head.

The head castings carry a pattern for cutting the opening in

barrel. These pumps have the twin type mechanical agitator, made of hard wood, extra long with adjustable stroke, so that it can be used in any form of tank or barrel. The pumps are sold plain or with the following equipment and at prices shown.

No. 5 "King" Pump, with 15 feet pressure hose, 8 feet pipe, brass shut-off cock, nozzle, hose clamps, etc. (with barrel)	\$16.00
No. 6 "King" Pump, with one lead of 15 feet pressure hose, 8 feet pipe, brass shut-off cock, nozzle, hose, clamps, etc. (with barrel)	20.00

"IDEAL" SPRAY OUTFIT.

This outfit is light, compact and easy to operate. The tank holds fifteen gallons, is mounted so that the liquid will not slop or spill, and in a way that makes it easy to handle. The pump spreads across the top of the tank and is held firmly in place by a thumb nut. It has the largest air chamber of any spray pump of corresponding size. This enables the operator to keep a uniform pressure at the nozzle.

The pump barrel is $1\frac{3}{4}$ inches in diameter, 7 inches in length. The plunger is made of brass and is self-oiling. The packing is cotton wick, which will resist the action of the chemicals used for spraying and can be tightened without removing from the pump. The valves are bronze balls $\frac{3}{8}$ of an inch in diameter, which allows free passage of the liquids and prevents clogging. Both valves are removable. The pump handle is of iron. It is extra long and a pressure of one hundred and fifty pounds can be easily maintained.

A mechanical agitator keeps the liquids well stirred. A fine strainer at the opening in the suction pipe prevents anything getting into the working parts of the pump. The pump has the following equipment:

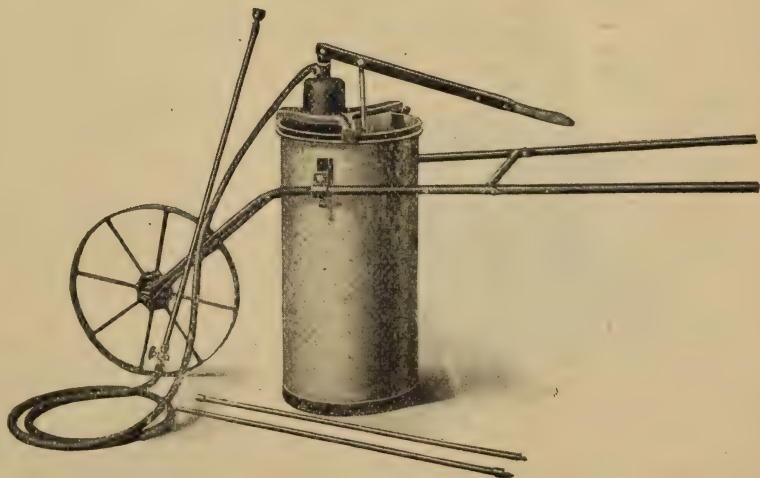
10 feet, $\frac{3}{8}$ -inch pressure hose.

8 feet pipe extension, in 2 pieces.

1 "Ideal" nozzle.

1 brass shut-off cock.

Shipping weight, crated, 60 pounds.



Price, \$19.00.

HARDIE BARREL SPRAYER.

This cut shows one of the pumps mounted on a barrel. This manner of mounting the pump on the side of the barrel has many advantages over the old method of mounting the pump on the end of the barrel, as in this position it is less likely to come in contact with the low branches of the trees. There is also no danger of tipping the barrel over when mounted this way. Then, again, the pump is in the deepest part of the barrel, and ALL the liquid can be pumped out. A filler door is hinged near the end and a suitable strainer is furnished with each barrel.



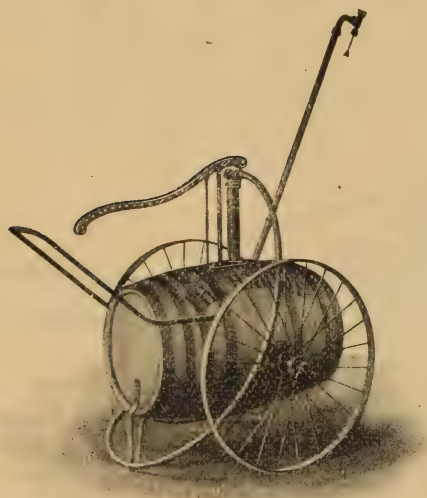
Pumps Nos. 4½, 5, 6 and 7 are made to fit a barrel this way and are sold either with or without barrel.

The Hardie Hand Pumps can easily be mounted on any common barrel.

Pump No. 6, has one 8-foot bamboo extension, fifteen feet best ½-inch hose and couplings, and one Vapo nozzle.

Price (with barrel), **\$20.00**

THE HARDIE WHEEL OUTFIT NO. 21.



This outfit is destined to meet a long-felt want by the small fruit grower and gardener for a suitable arrangement in this line. It is a handy, neat-appearing, up-to-date spraying outfit, can be taken where it is impractical to take a wagon, and is no more difficult to wheel about than an ordinary baby carriage.

The 30-gallon barrel is mounted as shown in cut, on strong wrought-iron wheels 26 inches in diameter, with 1½ inch tires. The barrel is nicely painted and provided with a hard-wood strainer with a bottom of brass screen wire.

PRICE.

Equipped with No. 5 pump, 5 feet best hose and couplings, 8-foot iron rod and leakless stopcock, one Vermorel nozzle,	\$24.00
With 8-foot bamboo in place of iron rod,	26.00

JUNIOR SPRAY PUMP NO. 5.

All brass suction, working within a brass cylinder with all brass valves. Price, \$2.50.

GOULD'S

"Pomona" Barrel Pump.

Outside Packed Plungers

No Leather Packings.



For small orchards of a few trees or a few acres, a good barrel pump will meet every requirement, and, in fact, where only low grade of labor can be secured, some prefer to use several barrel pumps rather than a power outfit.

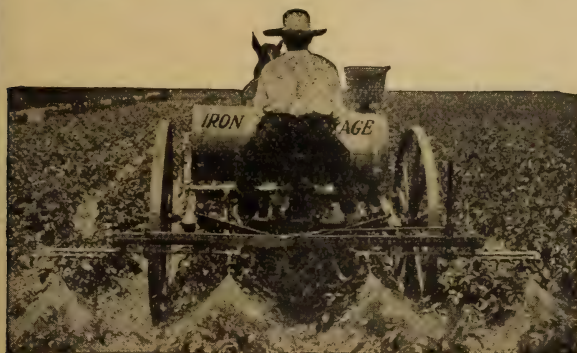
The "Pomona" is offered as one of the most satisfactory pumps of this kind.

It is unusually powerful, fully capable of supplying two leads of hose and four nozzles. The working parts, including the plunger, plunger connection, gland, valve, valve seats and strainer, are of solid bronze. They are simple, accessible and easily removed. The pump has a steel air chamber, extending from the top of the sprayer to the valve chamber, making it easy to produce sufficient pressure to continue spraying for some time after the pumping has stopped. It is equipped with a long adjustable lever, producing three, four or five inch strokes by simply removing and replacing a

single bolt, thus varying the pump's capacity. The pump may be placed in any length barrel, as the barrel plate is adjustable. It is held firmly in place by this plate and a small anchor at the bottom of the barrel. The agitator is simple, but very effective, operated by the same lever that works the sprayer.

Pump with Agitator and Hose Couplings	PLUNGER.		DOUBLE DISCHARGE.	PRICE.
	Diameter.	Stroke.		
	2½ inches.	Adjustable, 3, 4 or 5 in.	½-inch hose. ¾-inch pipe.	\$15.00
Outfit C	With agitator and one lead 15 feet ½-inch discharge hose, with "Mistry Jr." spray nozzle.			18.75
Outfit D	With agitator and two leads of 15 feet each ½-inch discharge hose, with "Mistry Jr." spray nozzles.			22.00

The "Iron Age" Four-Row Sprayer.



The sprayer has become in recent years as valuable an implement to the farmer, in successfully and economically raising a crop of potatoes, as any other implement. As our readers will notice from the cut, there have been introduced some new and valuable features, which will help to make the growing of potatoes still more certain and profitable.

SEND FOR ILLUSTRATED CIRCULAR AND PRICE LIST.

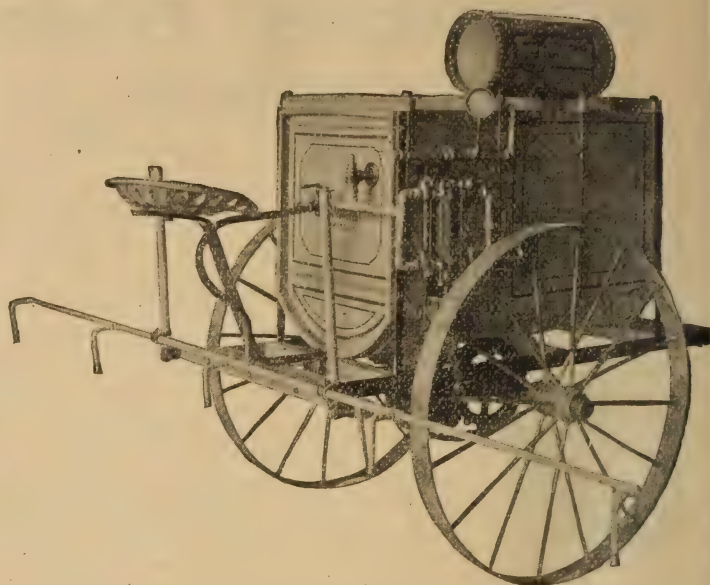
"WILL-SPRAY."

No. 20.

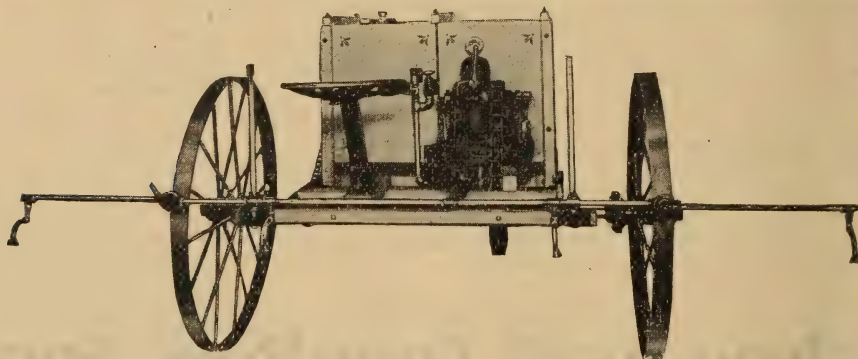
The solution tank is made of clear cypress, holding 100 gallons. It is provided with a brass strainer, and a plug is placed under the tank for cleaning or emptying same. The entire piping is of brass and the machine is equipped with a 200-pound pressure gauge and safety valve. The pump being double acting, the stroke is constant and there is no pounding or uneven use of power. The potato attachment is made of brass.

This machine is designed for handling Bordeaux, Paris green, lime, sulphur, sulphate of iron and copper, or any other solution, and the mechanical agitator is driven by an eccentric always in operation when the machine is moving, which keeps the solution thoroughly mixed. **Price, \$125.00.**

"Will-Spray," No. 16. Similar in construction to No. 20, except that it has two double action pumps, one on each side of the machine. All its parts are made to correspond with its pumping capacity, making it the strongest, the most powerful two-wheel traction sprayer ever brought out. The machine is piped throughout with brass pipe, and is fitted with pressure gauge and relief valve, and has a 150 gallon solution tank. **Price, \$150.00.**



LITTLE GIANT NO. 28 FIELD AND POTATO TANK SPRAYER.



This 75 gallon Tank Sprayer can be equipped with either four or six row attachment for spraying.

Its width permits it to pass between two rows, leaving proper space between row and nozzles for the spray to become most effective. Equipped with vertical spraying attachment, every part of the vine from ground to a height of seven feet or more may be drenched with spray. For spraying potatoes, a five-row spraying attachment is provided, spraying a large acreage in the shortest possible time.

The pump is so situated in the machine that dirt will not fall into the working parts and cause trouble.

Has 44-inch steel wheels, 2½-inch tire. Axle 1½-inch C. R. steel.

The wheels are of wrought steel and are so arranged that they will fit either side, and the machine can be made to track any width from three to six feet as ordered. The mechanical agitator is driven by a little sprocket always in operation when the machine is moving and keeps the solution thoroughly mixed. The solution tank is made of clear heart cypress, and will outlast the barrel or steel tank commonly used. It is provided with a galvanized strainer in the filler opening, and a plug is placed under the tank for cleaning or emptying same. The entire piping is galvanized and the machine is equipped with a 200-pound pressure gauge and safety valve. The pump being double acting, the stroke is constant and there is no pounding or uneven use of power. This machine is tested at 200 pounds pressure before it leaves the factory. The usual potato attachment is made of galvanized steel. We can furnish extra long neck yoke and double tree and extra long axle, which can be arranged for different width rows. Pole is convertible, viz., can be spread and used for shafts when it is desired to use one horse.

Price, \$90.00.

DIRECT CONNECTED PUMPING OUTFIT.

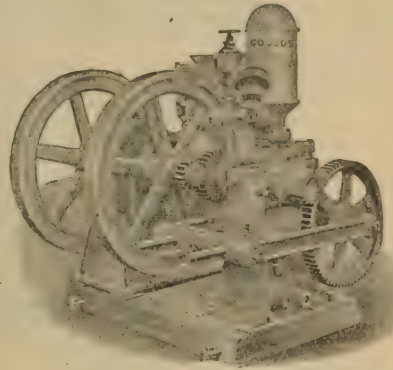
DEYO SELF CONTAINED GASOLINE ENGINE AND GOULDS PYRAMID DOUBLE ACTING PUMP.

Engine and pump are mounted on cast iron base, which effectually does away with all vibration and assures perfect alignment at all times.

TABLE OF VARIOUS COMBINATIONS.

Engine Horse-power.	Pump Diameter.	Pump Stroke.	Gallons per minute.	Suction Inches.	Discharge Inches.
1½ to 3½	3	5	8 to 15	1½	1½
2 to 3½	4	5	15 to 30	2	2
2½ to 3½	5	5	20 to 30	2½	2½
3½ to 6½	6	6	50 to 70	3	3
6½ to 9	6	12	100 to 140	4	4

The power required for these outfits depends upon the capacity and pressure desired.



ENGINE AND PUMP ON CAST IRON BASE.

GOULDS "PYRAMID" DOUBLE-ACTING PISTON PUMP.

FOR GENERAL WATER SUPPLY, TANK PUMPING, ETC.

An ideal outfit where pumping of almost any kind is desired up to 75 pounds pressure or 175 feet elevation. General water supply, including tank pumping for farms, country estates, railroad water stations, irrigation and spraying trees. Where a large and constant supply of water is necessary the "Pyramid" can be profitably used and operated by small gas or gasoline engines or electric motor.

On this pump the base, cylinder, bearings and one cylinder head are cast in one piece, giving a remarkably stiff and rigid construction. One cylinder head being cast on to the cylinder removes all possibility of leaking or blowing out the packing at this point. Casting the bearings as a part of the cylinder keeps the gearing absolutely in line, greatly decreasing the wear and proportionately increasing the life of the pump. The cylinder is brass lined, provided with large suction valves just below the bore of the cylinder. These valves are easily accessible through two hand holes, the cover of which can be removed by backing off one bolt. The discharge valves are above the cylinder and are reached through hand holes located directly under and at either side of the air chamber. The hand hole plates can be removed by simply loosening one bolt. The stuffing box on the cylinder head is provided with a bolted bronze gland, making it very easy to keep the packing tight at this point. The side rods are so designed as to give a straight line thrust from the crank pin to the cross head.

The power end of this pump consists of a pinion shaft supported on a long double bearing in the center of the pump directly under the air chamber. The construction of this bearing is such that no outboard bearing is required. The lower half of this pinion shaft bearing is made extremely long and is provided with an auxiliary cap at the outer end next to the pulleys, which gives a second bearing for supporting the shaft. This cap is arranged with a large oil pocket. Both gear and pinion are cast iron, machined all over, the teeth are cut from the solid metal, insuring quiet operation and long life. The pump is geared 5 to 1. The crank bearing cast on the rear end of the pump is provided with a large oil pocket and cap. All bearings are lined with high grade bearing metal. The piston is packed with double crimp leather, well supported by heavy castings. The piston rod is brass cased.

Pistons.		Capacity. One Rev. of Crank Shaft.	Usual Speed and Capacity per Minute.	For Elevation to	Size of Pipe		Approximate Weight, Lbs.	Tight and Loose Pulleys.	Price.
Diameter.	Stroke.				Suction.	Discharge.			
3 inch.	5 inch.	31 gals.	40 revs., 12.4 gals.	175 ft.	1½ inch.	1½ inch.	280	15 x 2½ inch.	\$ 55.00
4 "	5 "	54 "	40 " 21.6 "	175 "	2 "	2 "	325	15 x 3 "	65.00
5 "	5 "	85 "	40 " 34.0 "	175 "	2½ "	2½ "	500	16 x 4 "	75.00
6 "	6 "	1.47 "	40 " 58.0 "	175 "	3 "	3 "	645	20 x 4 "	100.00
6 "	12 "	2.94 "	40 " 116.0 "	175 "	4 "	4 "	875	26 x 4 "	175.00

DEYO POWER SPRAYERS.



Regular equipment includes a Deyo $3\frac{1}{2}$ horse-power hopper-cooled engine, completely equipped with pulley, battery box, tool box and full set of tools, lubricating oil and cup grease; two-cylinder spray pump connected to engine and mechanical agitator; ten foot lead of 1-inch suction hose, fitted with strainer; two twenty-five foot leads of special $\frac{3}{8}$ -inch discharge hose, fitted with connections for attaching to pump and extensions; one pressure gauge; one water relief valve; two eight foot $\frac{1}{4}$ -inch black extension rods, fitted with stopcocks, Y's and four nozzles; 200-gallon spray tank with mechanical agitator.

All of the above equipment is connected complete and mounted on platform with cab over engine and curtains to protect the engine and pump. The platform is mounted on trucks, equipped with 28 x 4 inch front wheels and 36 x 4 rear wheels, with grooved tires. Double evener, whiffletrees and neck yoke are furnished with each sprayer. Truck is arranged with front wheels to cut under for making short turns.

Height to top of deck, 76 inches. Length over all, 116 inches. Width of track, 56 inches. Length of deck, 52 inches. Width of tires, 4 inches. Weight, 1800 pounds.

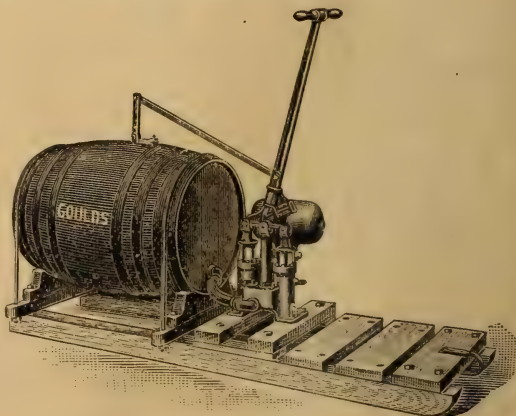
Price, \$275.00

NEW "MONARCH" SPRAYER.

The new "Monarch" outfit is a barrel sprayer for service where the fruit grower needs a hand sprayer of larger capacity than the ordinary barrel sprayer. It consists of the "Monarch" two cylinder pump, mounted on skids with the barrel.

The barrel is provided with an agitator, which is operated by a lever connected to the pump lever. In addition to the barrel and pump, the skids carry a platform upon which the operator stands. A ring is also attached at the front for connection to the whiffletree.

The outfit is furnished complete with pump, barrel, agitator, connection between pump and barrel, and skids.



Price, \$40.00

"IRON AGE" GARDEN IMPLEMENTS.

No. 4. "Iron Age" Combined Double and Single Wheel Hoe and Drill Seeder.

Remarkable for the variety of work it will accomplish, as it is very similar to the No. 6, excepting the opening plow and hill-dropping device. It does not place the seed in hills, but in continuous rows, and this feature makes it more desirable to some, as they do not wish to place the seed in hills, but prefer the saving in price. It can be used as a double or single wheel hoe, cultivator, rake or plow.

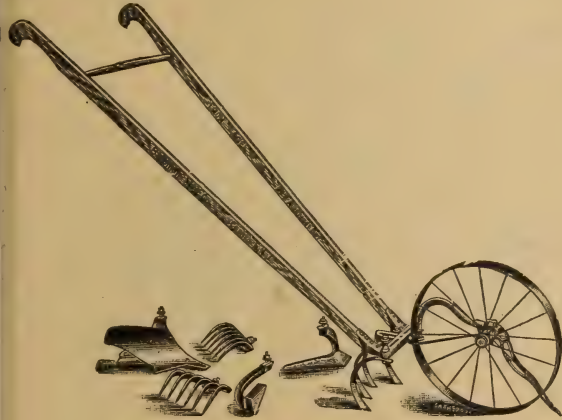
Price (complete), \$11.00.

No. 5. "Iron Age."

As a drill seeder only. **Price, \$8.00.**



No. 4.



No. 9.

No. 9. "Iron Age" Single Wheel Hoe.

Is especially suitable for narrow rows, is light, strong, and for work done is very similar to No. 20. A weeder attachment for killing small weeds and pulverizing the soil may also be added. **Price, \$5.25.**

No. 10. "Iron Age."

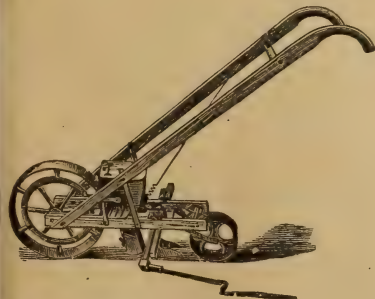
Same as No. 9, with hoes only. **Price, \$3.25.**

No. 8. "Iron Age" Hill and Drill Seeder.

This tool is very desirable for the market gardener who prefers an implement for a seeder only. It is simple, light, strong and capacious. The hopper holds four quarts. All small seeds are accurately placed in hills, 4, 6, 8, 12 or 24 inches apart, or in continuous rows. **Price, \$11.00.**



No. 8.



New Model Seed Drill.

New Model Seed Drill.

This drill has been in use many years, and is well known to give perfect satisfaction. It has a large, broad-tired wheel, perfect and reliable index, a cut-off to stop the flow of seed when desired, and is very valuable and complete. **Price, \$8.00.**

"IRON AGE" GARDEN IMPLEMENTS—Continued.



No. 6.

No. 6. "Iron Age" Combined Double and Single Wheel Hoe, Hill and Drill Seeder.

Ten tools in one, and each as satisfactory as a tool made for the special purpose. Places the seed in continuous rows or in hills, 4, 6, 8, 12 or 24 inches apart. Can be quickly changed to a double or single wheel hoe, cultivator, rake or plow. **Price** (complete), **\$12.00.**

No. 15. "Iron Age" Combined Single Wheel Hoe, Hill and Drill Seeder.

Very similar to the No. 6 above, excepting it has only the single wheel. **Price** (complete), **\$11.00.**

No. 17. "Iron Age."

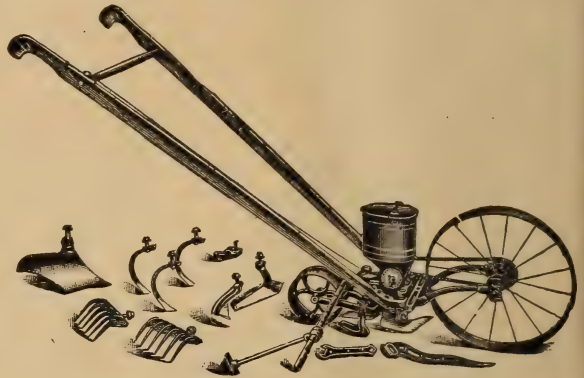
Complete, excepting the hill-dropping device. **Price, \$10.00.**

No. 16. "Iron Age."

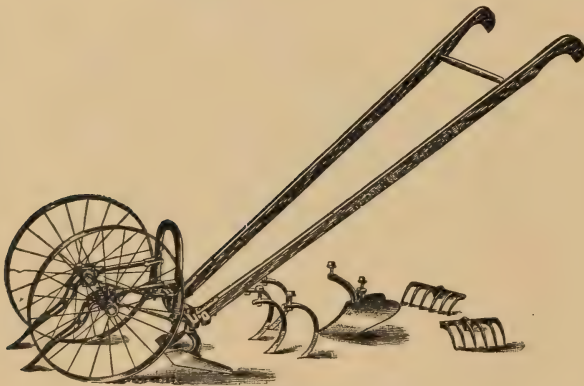
As a hill and drill seeder only. **Price, \$8.50.**

No. 18. "Iron Age."

As a drill seeder for continuous rows only. **Price, \$7.50.**



No. 15.



No. 1.

No. 1. "Iron Age" Double and Single Wheel Hoe.

Can be quickly changed to a double or single wheel hoe, cultivator, plow or rake; as a double wheel, can be used astride the row or as a single wheel between the rows. A drill seeder or hill and drill seeder attachment can be added at any time.

Price (complete), **\$7.00.**

No. 3. "Iron Age."

Same as No. 1, with side hoes only. **Price, \$4.25.**

No. 22. "Iron Age" Combined Fertilizer Distributor, Hill and Drill Seeder.

Applies the fertilizer in connection with the seed, just where it will do its most efficient work. It is perfectly simple, light of draft, strong, and perfection in the quality of work done. The method of sowing fertilizer and seed, or of sowing the fertilizer alone, is ideal. **Price, \$18.00.**

"IRON AGE" GARDEN IMPLEMENTS—Continued.**No. 12. "Iron Age" Wheel Plow and Cultivator.**

Remarkable for its exceeding lightness, combined with great strength, the low price and variety of work it will accomplish. Will do all the work of a kitchen garden, as plowing, hoeing, raking and cultivating, and is especially suitable for those desiring such a variety of tools for a small amount.

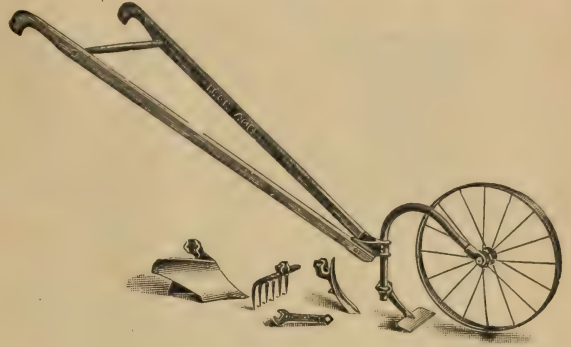
Price (complete), \$3.50.

No. 11. "Iron Age."

As a wheel plow only. **Price, \$2.50.**



No. 19.



No. 12.

No. 19. "Iron Age" Wheel Plow and Cultivator.

Has a higher wheel than any previously offered, it being 24 inches high, with 1-inch tire, and very strongly made. The frame is steel throughout, which insures durability and lightness. **Price, \$3.25.**

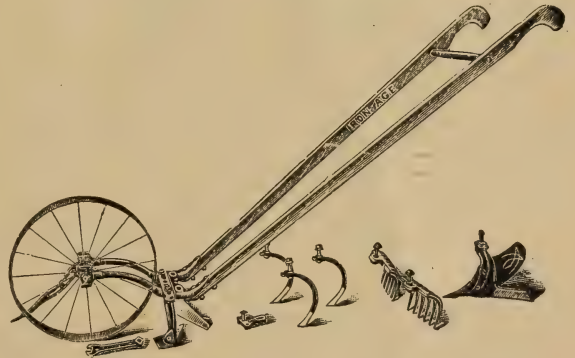
No. 20. "Iron Age" Single Wheel Hoe.

A most complete single wheel tool. One pair of side hoes, three cultivator teeth, one pair rakes, and a landside plow are furnished. **Price (complete), \$6.00.**

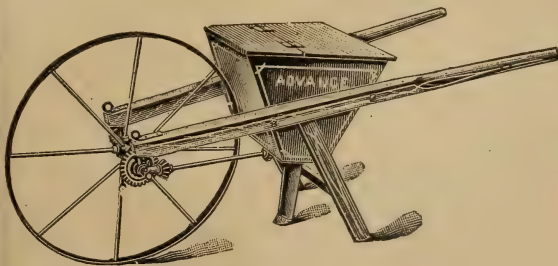
No. 21. "Iron Age."

Same as No. 20, with plain hoes only. **Price, \$4.00.**

Can be used as a seeder at any time by adding the drill, or hill and drill seeder attachment.



No. 20.

**ADVANCE ("IRON AGE") FERTILIZER DRILL.**

One of the best low-priced fertilizer distributors made. Has galvanized iron disc, which will not rust or break; a light and strong wrought-iron wheel, and a shut-off to prevent escape of fertilizer at end of rows. A first-class tool for drilling peas and corn.

Price, \$6.75.

As it is possible to show only a few of these implements, a complete descriptive "Iron Age" Catalogue will be sent free on request.

FOSTER (Racine) BROADCAST SEEDER.

(DOUBLE GEAR.)

Will sow perfectly any quantity to the acre of oats, barley, rye, buckwheat, clover, millet, timothy, Hungarian, etc. Will also sow peas, corn and fertilizers, in a most satisfactory manner.

Price, \$8.50.



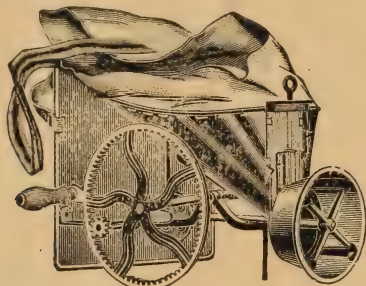
COLUMBIA BROADCAST SEED SOWER.



This seeder is practical, neat and mechanically correct in construction. It distributes seeds evenly, has an automatic cut-off, and the iron distributing wheel gives great momentum. No machine does better work, it being a strictly high grade seeder.

Price, \$1.50.

THE CAHOON BROADCAST SEED SOWER.



For Sowing Wheat, Oats, Barley, Rye, Buckwheat, Grass Seeds, etc.

This hand machine sows from four to eight acres per hour, at a common walking gait.

Price, \$3.00.

ACME Rotary Automatic Hand Corn Planter.

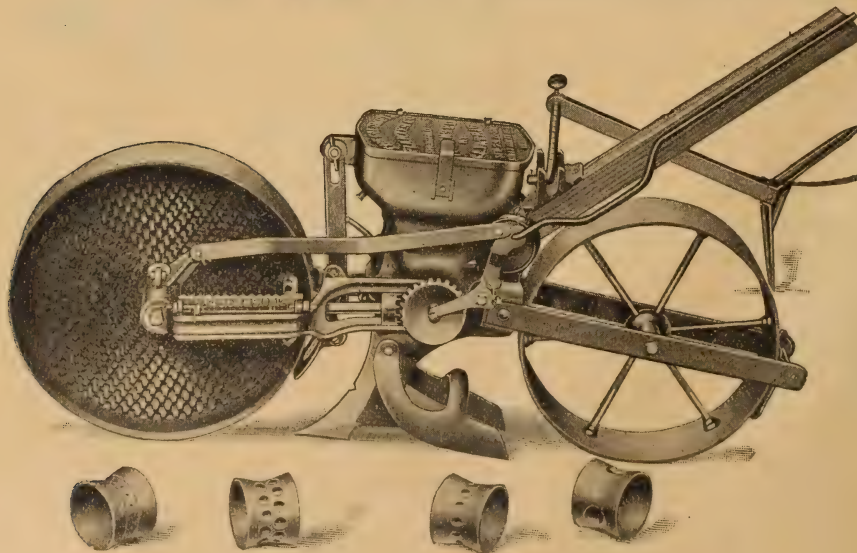
For planting corn, beans, peas and similar seed.

Capacity of hopper, two quarts.

Price, \$1.75.



THE NEW COLUMBIA GARDEN SEEDER.



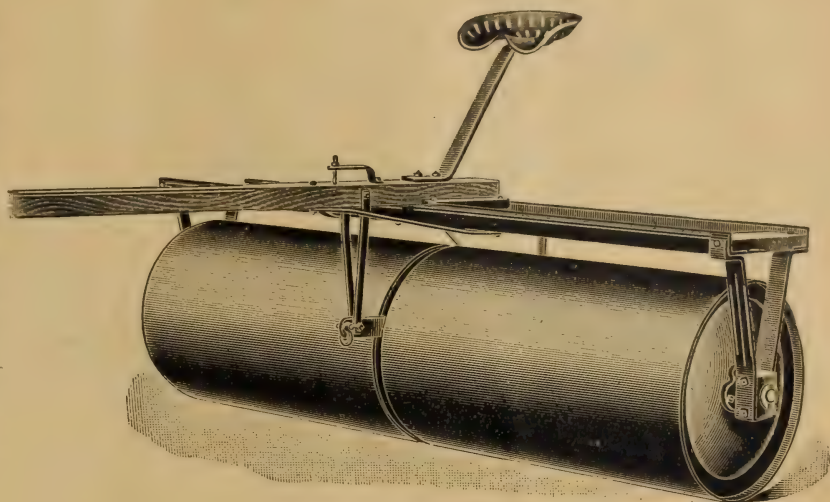
This new seeder has proved to be one of the most successful and accurate planters on the market. With the Columbia you can plant a greater variety of seed and more accurately than any other machine manufactured, and also bear in mind that it has positively a force feed. Seed can be drilled or planted in hills at various distances. Comes equipped with seven seed cylinders, and can furnish extra ones for any special seed you might have. Regular equipment will plant all common vegetable seeds, from the smallest up to beans and peas.

Price, \$10.50.

STEEL LAND ROLLERS.

Heavy steel heads are used, making fully closed ends. The rims or drums of these rollers are of the best material of heavy gauge and are firmly riveted to the heads.

The hangers are of forged steel and cannot be broken. The middle hanger and draft bar prevents the frame from sagging and the axle from bending, and brings the draft in line with the axle. The bearings in the hangers when worn can be replaced at small expense.



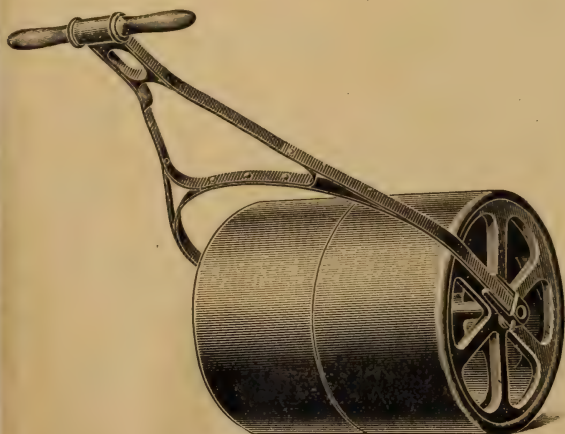
Price on application.

ONE-HORSE STEEL LAND ROLLER.

Similar in construction to two-horse roller, but made with smaller and shorter sections.

Price on application.

IRON GARDEN AND LAWN ROLLERS.



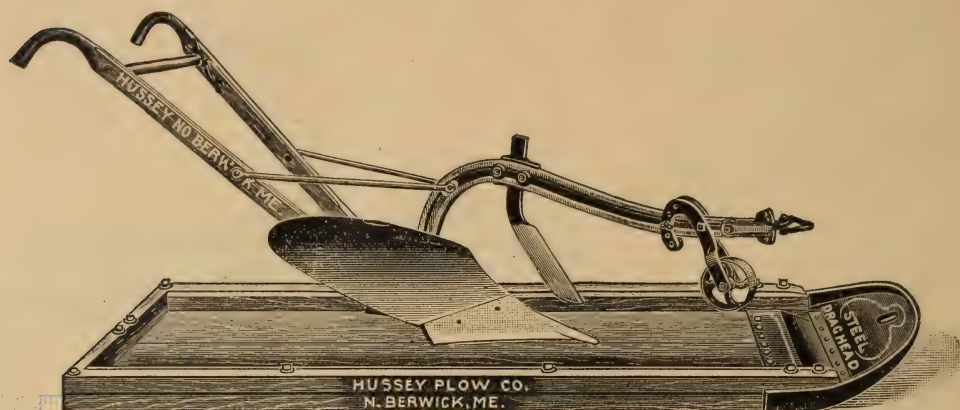
Outer edges beveled. Steel axles perfectly fitted in machined bearings, assure perfect alignment and ease in using.

Iron Handle with Counterweight. The only lawn roller made with a handle that is absolutely rigid and that will remain so.

No. 1 and No. 2 do not have handle counterweight.

No.	Sections Each.	Inches long.	Inches diam.	Weight.	Price.
1	2	16	20	150 lbs.	\$ 7.00
2	2	16	20	200 "	9.00
4	2	20	20	250 "	10.50
6	3	24	20	300 "	13.00
7	2	24	20	300 "	13.00
8	3	30	20	350 "	15.50
9	2	20	24	400 "	18.50

HUSSEY PLOWS.



These plows are very strongly built, have the regular "Hussey" shaped mouldboard, which is so much liked by New England farmers; are made of the best materials throughout, are easily held, and are as nearly complete and satisfactory in every respect as the most critical farmer can ask.

No. 23. MEDIUM OR LIGHT TWO-HORSE PLOW. Steel Mouldboard, "Hard Metal" Point.

Cuts from 4 inches to 7 inches deep, 11 inches to 13 inches wide.

Weighs, complete, 120 lbs.

No. 25. LARGE TWO-HORSE PLOW. Steel Mouldboard, "Hard Metal" Point.

Cuts from 5 inches to 7 inches deep, 13 inches to 16 inches wide.

Weighs, complete, 128 lbs.

No. 26. SAME PLOW as No. 25, with a Little Higher Mouldboard and Heavier Beam.

No. 28. LARGE THREE-HORSE PLOW. Steel Mouldboard, "Hard Metal" Point.

Cuts 7 inches to 9 inches deep, 14 inches to 18 inches wide.

Especially adapted for breaking up new land.

Weighs, complete, 162 lbs.

No. 100. (Wood Beam.) ONE-HORSE PLOW.

Cuts from 5 inches to 6 inches deep, 10 inches wide.

Weighs, complete, 66 lbs.

No. 102. (Wood Beam.) LIGHT TWO-HORSE PLOW.

Cuts from 5 inches to 7 inches deep, 12 inches wide.

Weighs, complete, 82 lbs.

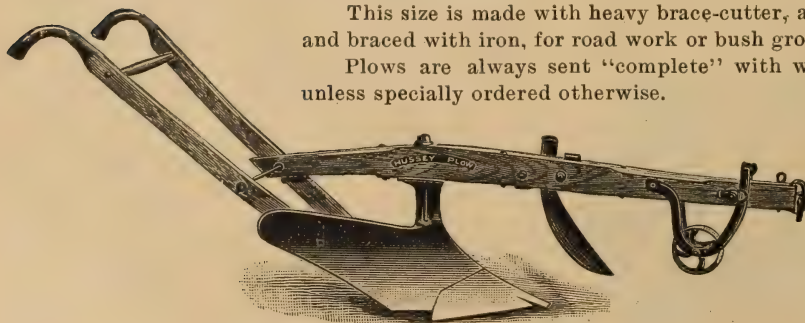
No. 108. (Wood Beam.) HEAVY ROAD OR BUSH GROUND PLOW.

Cuts from 8 inches to 10 inches deep, 18 inches to 20 inches wide.

Weighs, complete, 190 lbs.

This size is made with heavy brace-cutter, and beam laid with wrought iron and braced with iron, for road work or bush ground.

Plows are always sent "complete" with wheel and common sword cutter, unless specially ordered otherwise.



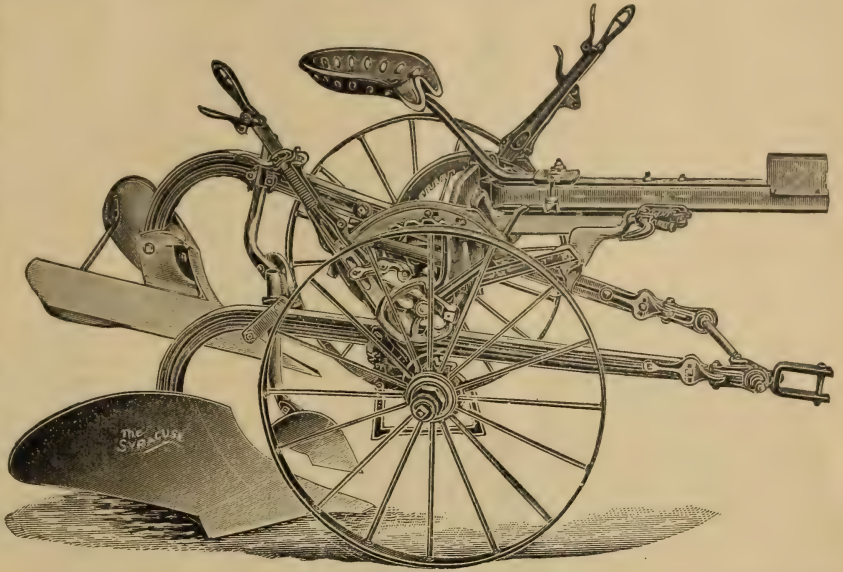
WOOD BEAM HARD METAL PLOW.

Descriptive Catalogue,
showing
Complete Line,
Mailed on Application.

SYRACUSE SULKY PLOW.

THE FIRST PRACTICAL SULKY PLOW MANUFACTURED, AND IS STILL ONE OF THE BEST ON THE MARKET.

Hardened steel mouldboards and steel strips. Chilled or steel shares. For two or three horses, as ordered. Does perfect work on hillside or level land. No ridges or dead furrows. Steel wheels with removable chilled boxes and dust-proof caps. The beams, jointer standards, and bails are of steel.

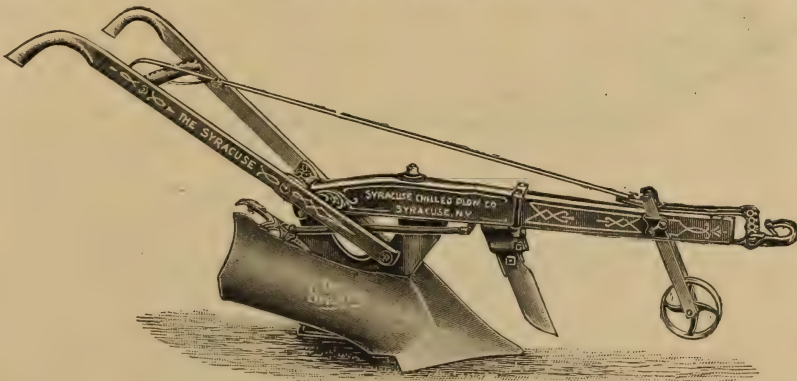


The demand for this kind of riding plow has increased rapidly of late years, as the feature of having level fields without dead furrows or ridges has commended it to numbers of our most successful farmers.

As appears in the cut, two flat land plows are mounted on separate steel beams, and the movements of each controlled by a separate lever. In use one plow is raised, while the other turns the furrow. At the end of the furrow this plow is raised by pressing down on the foot trip, which transfers the labor to the team and automatically unlocks the plow when clear from the ground, leaving the driver both hands with which to manage his horses in turning. After the turn is made and the other plow lowered, the whiffletrees slide automatically to place at the end of the long clevis in front of the working plow, so that the plow draws in line of draft.

(All castings are malleable.)

SYRACUSE DIAMOND PLOWS.



This series has proved very popular in New England. They are light weight, of good capacity and handle easily.

These plows are made with both steel and cast mouldboard; steel, however, is preferable, as it is equally strong and much lighter.

◆ A MEDIUM TWO-HORSE, CAST SHARE, CAST OR STEEL BOARD.

◆ B LIGHT TWO-HORSE, CAST SHARE, CAST OR STEEL BOARD.

◆ C ONE-HORSE, CAST SHARE AND CAST BOARD ONLY.

Price mailed on application.

A complete descriptive Syracuse Catalogue will be sent free on request.

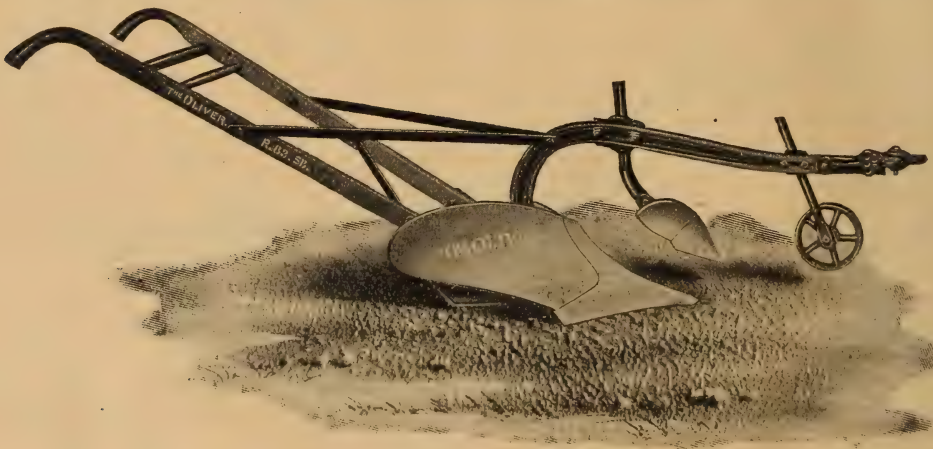
OLIVER PLOWS.

REVERSIBLE SULKY PLOW.



The No. 23 Oliver Sulky Plow is not only one of the best in theory and practice, but the most expert and careful workmanship guarantees every plow as near perfect as human effort can make it. By means of a "horse lift," which is brought into play by simply pressing forward slightly on the foot trip, the operator's work is diminished by fully one-half and it is not necessary to use the hand lever. With this plow the operator can keep his eyes on his team and his hands on the reins—the feet only are needed in order to raise the plow. The wheels have staggered spokes and wide tires and are set so as to insure strength, easy running and long life. Made with either chilled or steel mouldboard as purchaser may wish.

NOS. 82, 83 AND 84.



Nos. 82, 83 and 84 plows are especially designed for general purpose work, and having superior turning qualities are well adapted to sandy, gravelly and stony soils. The long, graceful turn to the mouldboards also fits them for work in sod, in the turning and laying of which they give particular satisfaction. The plows are steady running, light in draft, easily handled and strongly braced.

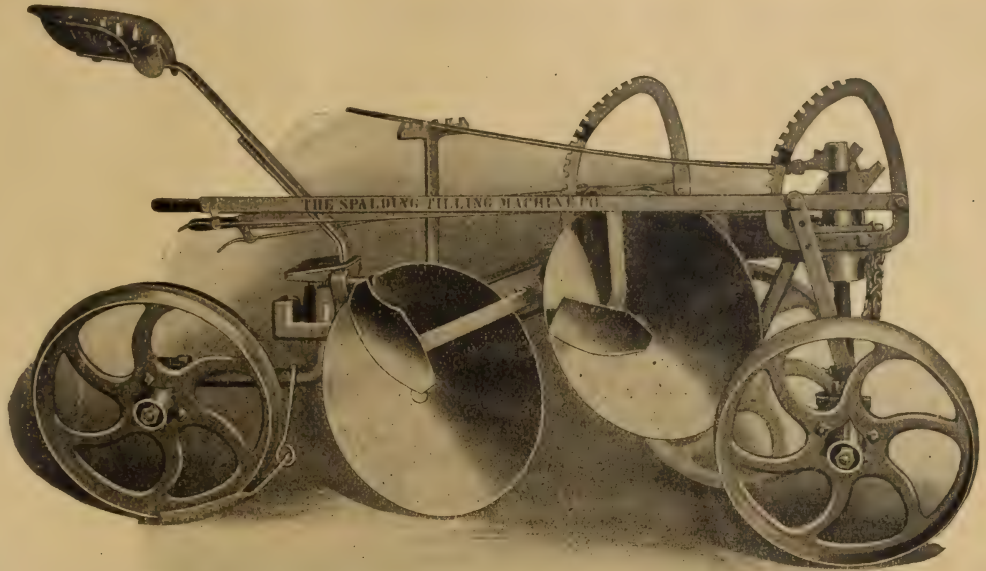
No. 82. A light two-horse plow. Capacity, 6 x 12 inches.

No. 83. A medium two-horse plow. Capacity, 7 x 13 inches.

No. 84. A large two-horse or medium three-horse plow. Capacity, 8 x 15 inches.

Price on application.

THE SPALDING DEEP TILLING MACHINE.



Especially designed and adapted for plowing, pulverizing and mixing the top and bottom soils together, to a greater depth than heretofore accomplished by any mechanical means, or by any implement (besides the spade), and to prepare a perfect seed-bed which will conserve the moisture, improve the physical condition of the soil, increase the crops and enhance the value of the farm at a single operation.

How the Spalding Deep Tilling Machine Operates.

The front disc cuts from four to eight inches and turns the top trash over into the bottom of the furrow. The rear disc follows in the furrow of the front disc and cuts from six to nine inches deeper. The greater portion of the earth turned by the front disc comes within the path of the movement of the earth cut and lifted by the rear disc, and as the earth passes across the face of this revolving rear disc, it is disintegrated, pulled apart and thoroughly mixed with the earth plowed by the front disc, leaving the top trash turned under by the front disc completely covered in the bottom of the furrow.

In ordinary soils, and under average conditions, the machine will plow and thoroughly pulverize the earth to a depth of from eight to sixteen inches, and make an excellent seed-bed.

Under favorable conditions, the machine can be adjusted to plow and pulverize to the depth of eighteen inches.

Often a long and continued drought makes the land so hard that it is impossible to plow it with the implements in general use. In such cases, the Spalding Deep Tilling Machine, when used, has never failed to plow from ten to fourteen inches deep, and will plow a furrow from eight to sixteen inches in width.

The machine does good work in muck land and in swamp land, even when filled with roots, stumps, etc., and does splendid work in turning under weeds, cornstalks, manure and other trash.

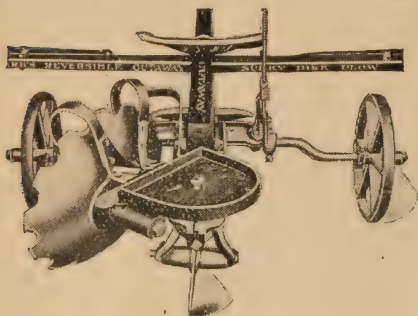
It cuts off roots as thick as one's arm, and throws out stones and rocks, and turns them on top. If they are too large and heavy, it dodges around, or rolls over them, and quickly readjusts itself in the proper working position.

The capacity of the machine in acres per day depends on the character and condition of the soil, the power used, the judgment of the operator, and the length of the day. Generally, the machine may be relied upon to plow from one and one-half to two and one-half acres per day. When the object is to make a thoroughly pulverized seed-bed, in a single operation, and the quality of the work done is regarded as more important than the quantity, the operator must be depended upon to adjust the machine with respect to the character of the soil and the work to be done.

Price given on application.

CLARK'S "CUTAWAY" TOOLS.

Clark's "Cutaway" Reversible Sulky Disk Plow.



Economical, Easily Handled, Most Effective Made.

The wonderful achievements of this disk plow have attracted country-wide attention. It will make a 14-inch furrow nine inches deep with less draft than a drag-plow. For plowing under stubble and weeds that do not form sod, there is nothing more economical, more easily handled and more quickly hitched to. It is reversible, doing away with dead and back furrows. It will turn under weeds that average three feet in height, as well as any drag-plow, but much faster and more easily, without clogging.

This is a light-draft machine, designed especially for trade, where they need a plow that two horses can handle and turn soil four to six inches deep. Has weight box to accommodate sand bag in hardest work.

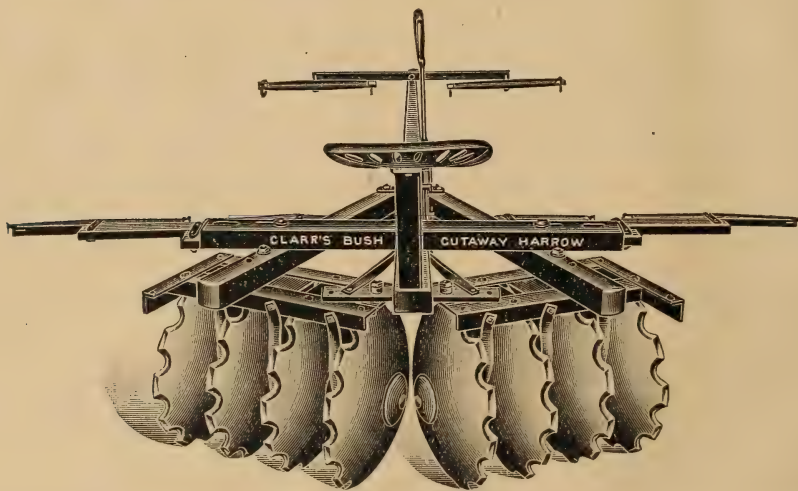
Disks are 26 inches in diameter; two-horse hitch; shipping weight, 370 pounds.

Price on application.

CLARK'S "CUTAWAY" REVERSIBLE BUSH AND BOG PLOW

For Subduing Bogs or Newly Cleared Forest or Stump Land.

Every Clark Bush and Bog Plow, and every Clark "Cutaway" Harrow, has the famous Clark oiled maple box bearing; the best bearing made.



One of the best machines made for the purpose of cultivating timber lands just cleared of timber and burned over, or to plow and cultivate stump, bog or bush lands cheaply. Its strength and durability are guaranteed.

This machine has been in use over fifteen years, and in that time has been the means of turning many acres of newly cleared timber land into profitable grain land. It will reduce an ordinary bush pasture to a fine grass field.

Clark's Bush and Bog Killing Plow and Harrow is made reversible so that it will move the earth to or from the center, thus keeping the land true. In seeding to grass or grain it levels the land and connects the sub-soil water.

Cuts a track 5 feet wide, 9 inches deep. Has eight 24-inch steel disks. Shipping weight, 623 pounds.

Price on application.

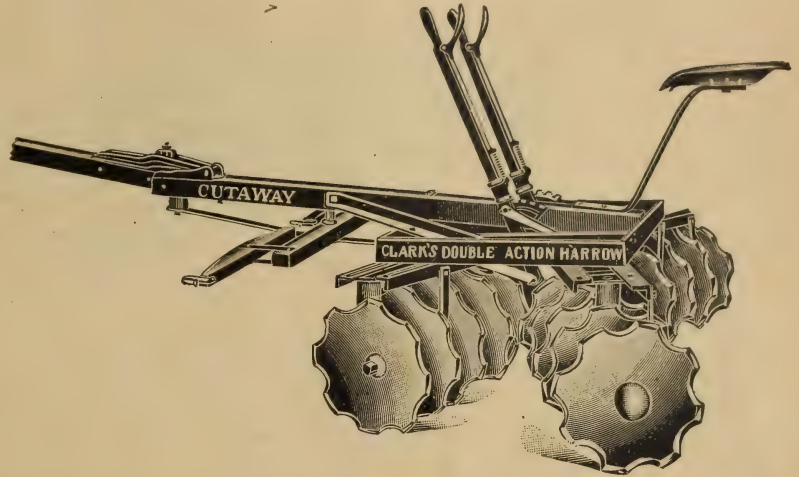
CLARK'S "CUTAWAY" TOOLS.

Clark's Double Action "Cutaway" Harrow.

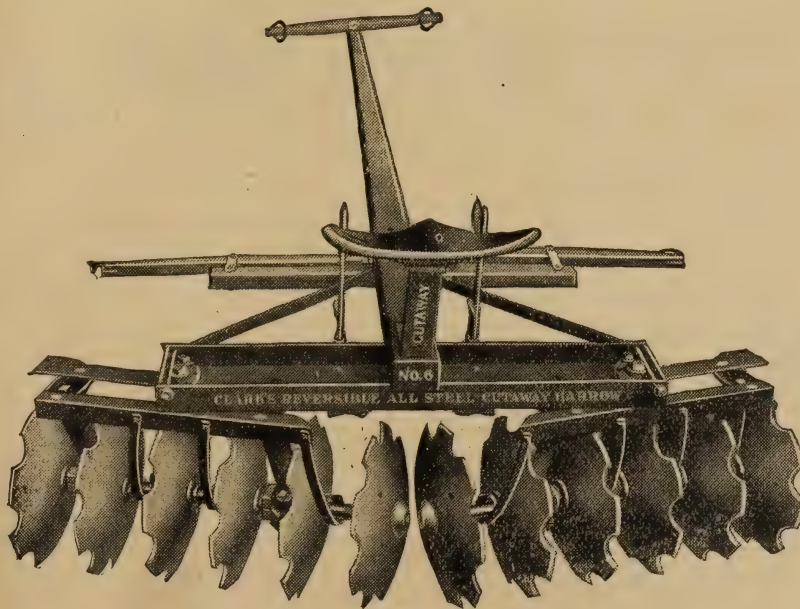
These machines have four gangs of disks, two in front and two in the rear. The front gangs loosen and break up the dirt and throw the dirt out; the rear gangs throw the dirt in. All four gangs are carried by a main frame that gives a very strong unyielding connection between them. The rear disks are placed so as to track between the front disks, and the main frame holds the rear disks to their work, keeping them from dodging to either side and holding them in the ground, no matter how hard the land is. Any trash passing between the front disks is cut up and turned under by the rear disks, where it will turn into plant food. Having a four-point bearing on the ground these machines run steady and true in the line of draft. The draft of these machines is very light, as the rear disks work in loose soil and consequently are drawn easily.

The whole machine, with the exception of the pole, is made of either iron or steel. The main frame and the gang frame side pieces are made of heavy angle iron. The strain of the gangs is taken up by angle iron bars, one above and one below the inner end of the gang frame. Both side pieces on each gang extend out between these bars. Heavy pipe standards are used, with the oil hole for the bearing at the top of the standard.

Price on application.



Clark's Reversible Double Lever "Cutaway" Harrow.



LIGHT, STRONG AND DURABLE.

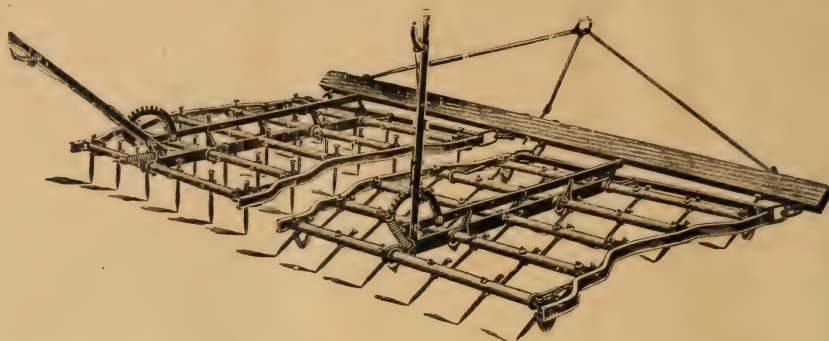
Price on application.

Clark's "Cutaway" Harrows have been in many competitive tests and have invariably come off victorious. No other harrow will stand up and work the wool grass or salt grass sod, or other hard sods that are often found, like Clark's Disk Harrows. In fact, we have never found any hard lands that the "Cutaway" will not work.

Clark's "Cutaways" are light in weight, yet heavy enough to properly enter the ground; light on horses; strong and durably built to withstand the severest strains without breaking.

On all of Clark's "Cutaway" implements, the **edges** of the **disks** are **hand forged** and **tempered**, making them much stronger, and causing them to hold a **sharp cutting edge** longer than ordinary disks.

SATTLEY CLOSED-END SMOOTHING HARROW.



This style of harrow is especially adapted for use in orchards, as the closed end of the frame allows the ground to be worked **very close to the trees**, without danger of damage from catching the tooth bars.

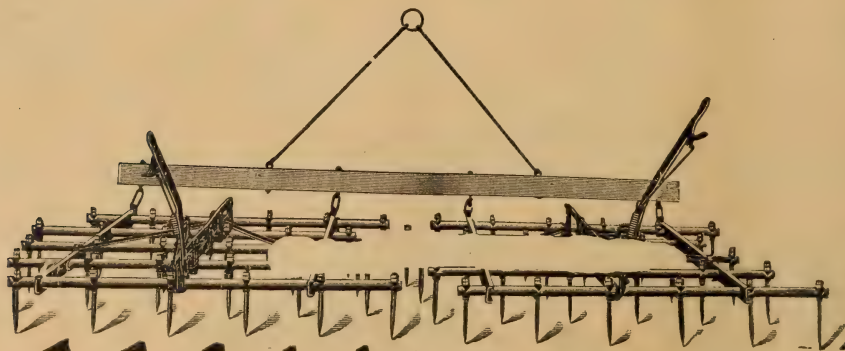
Only the best steel pipe is used in the construction of these harrows, which also adds to their strength and durability.

The teeth are made of tempered steel. They have a wide curved flange shoulder, which fits snugly against the under side of the pipe bar, while a threaded head passes through the pipe and is held securely by a nut on top.

The levers are conveniently placed and easily operated while the harrow is in motion. They provide for giving the teeth any desired slant.

The harrow is built in thirty and thirty-five tooth sections, each section independent in itself. We can furnish draw bars for working two, three or four sections together, as may be desired.

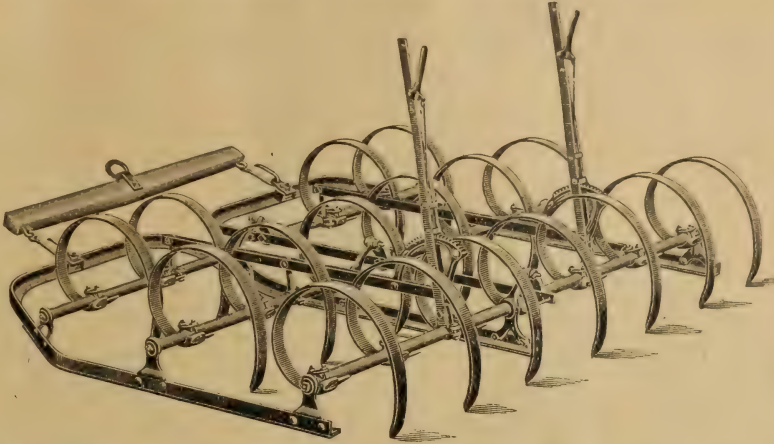
SATTLEY OPEN-END SMOOTHING HARROW.



The general type of these harrows is very similar to the pipe bar harrows as described above, except that heavy "I" beams take the place of angle iron beams, and "U" bars are substituted for the pipe bars. The strong, heavy construction, and the very high grade of material used, make these harrows one of the most durable on the market.

Price furnished on application.

THE BADGER LEVER HARROW.



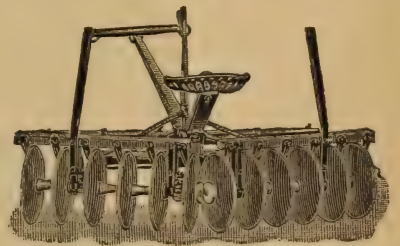
Made with 15 or 17 Teeth, in Two Sections; 23 or 25 Teeth, in Three Sections.

The frame is made of best quality angle steel. Only one runner is used in centre of harrow, thereby doing away with the clogging so often encountered in harrows of two or more sections. The frame hinges are of special design, and are unusually successful, allowing the harrow to conform naturally to all conditions.

Renewable steel shoes are bolted to under side of frame bars, which absolutely prevent any wear upon the frame and can be replaced at small expense. The tooth or cross bars are of high carbon steel pipe, 1¼-inch diameter. They are attached to the malleable frame brackets by steel rods running the whole length of the pipe on the inside—an extremely strong construction, as compared with harrows that have tooth bar connections only at the extreme ends. The tooth clips are malleable and patented, and are the most successful ones in use. The bottom clip is so formed that it protects the tooth and tooth bolts from wear. When the bolts are drawn up, the tooth is gripped by the bottom clip and forced against so much surface of the tooth pipe that it is absolutely impossible for the tooth to slip or become loose. The clip is so designed that it will not slip on the tooth pipe. This clip gives any amount of adjustment desired, and allows a large part of the tooth to be used. **No holes in teeth to weaken them.** It is of the greatest importance that every tooth should adjust individually. When teeth are strained, the depth of cut is changed. When new teeth are used among those partially worn, the points must be adjusted evenly. Sometimes the lever alone will not give as exact adjustment of teeth as desired for fine work. These adjustments are impossible with teeth which are held by bolts passing through them.

Price on application.

The Yankee Disc Harrow.



Price mailed on application.

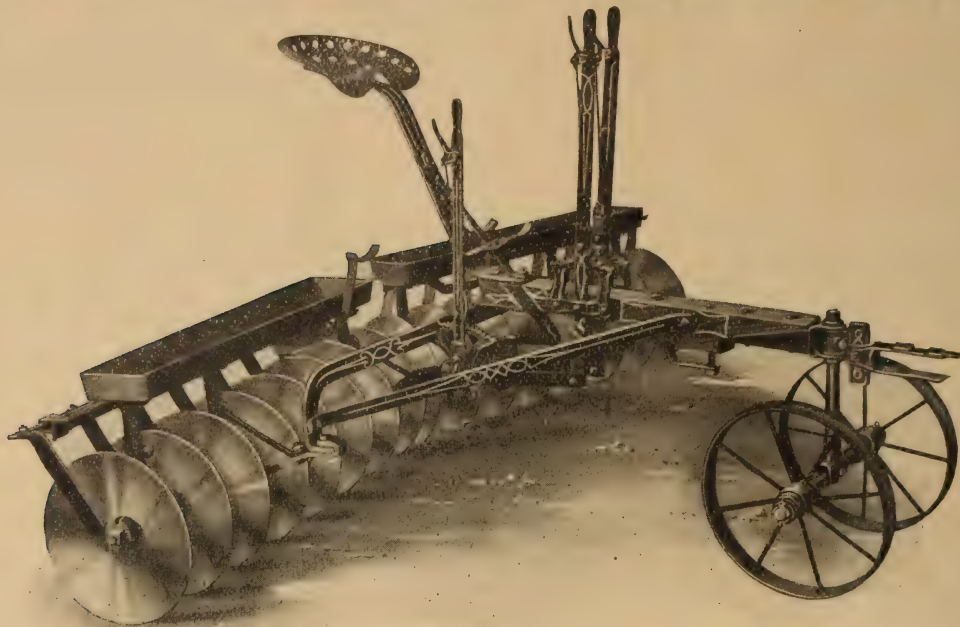
PEABODY'S POTATO AND ROOT CARRIER.



Will quickly fill or empty a bin of potatoes without bruising them. Every farmer needs one. Sizes, from 12 to 22 feet in length.

Price, per foot, \$1.50.

SATTLEY DISK HARROWS.



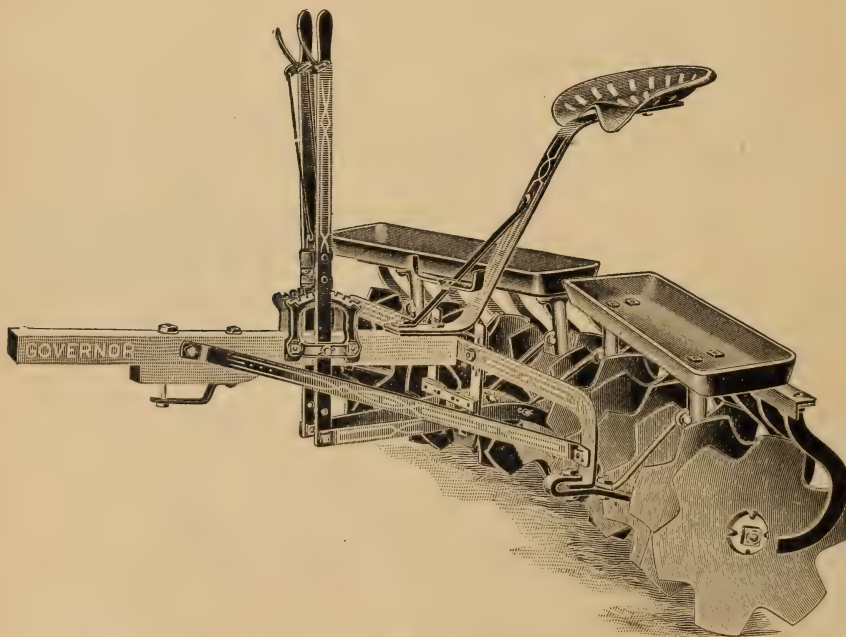
PLAIN DISK.

The frame is of heavy forged steel throughout, not a single casting being embodied in its entire construction. It is simpler, stronger and much more capable of withstanding the severe racking and jarring than are those with numerous cast joints and connections to jar loose. The necessary flexibility to permit the gangs to rock and conform to the unevenness of the ground is secured in the strongest and simplest manner possible. As may be seen in the cut, the ends of the crossbar of the frame are bent forward at right angles and fit into the looped end of the standard braces, the two being bolted together by heavy bolts. There is sufficient play left in these joints to permit the gangs all the freedom of movement demanded without resorting to clumsy

and ill-fitting castings. The scraper bars are the well-known "oscillating" type, which hold the scraper blades in constant contact with the disks by spring tension. By pressure upon the foot lever the scrapers can be held to their work at any point upon the disks, or made to sweep across the entire face from center to rim. The bearings are kept lubricated from large oil chambers, which extend from top to bottom within the standards. Having the lubricating device protected in this manner does away with the breakage or injury which is always possible with the exposed oilers used on some harrows.

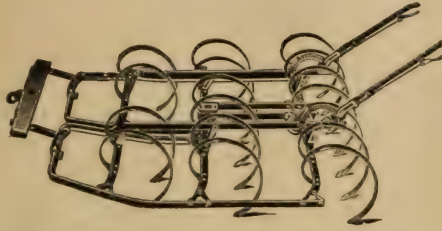
All Sattley Harrows have oiled maple bearings.

Price on application.



CUTAWAY DISK.

SYRACUSE SPRING-TOOTH HARROW.



large bearing surface of the runners, causing the ground to be thoroughly cut up and pulverized. Adjustable hitch, so that the teeth at front and rear can be regulated to work at the same depth.

15 Tooth, Two Horse,

17 Tooth, Two Horse,

Price, \$15.00.

" 16.00.

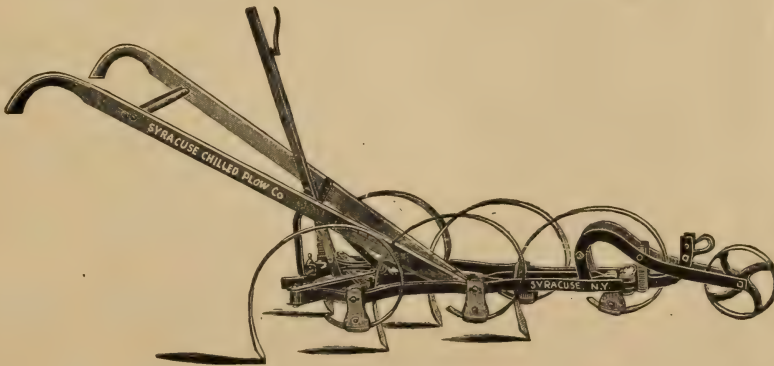
SYRACUSE SPRING-TOOTH CULTIVATORS.



No. 145. Ten Tooth, One Horse, plain teeth, with lever.

This style is especially adapted for use in stony ground. The frames are steel, strong and well put together throughout. The teeth are fine oil-tempered springs, are alike and interchangeable, and are also adjustable for angle and depth.

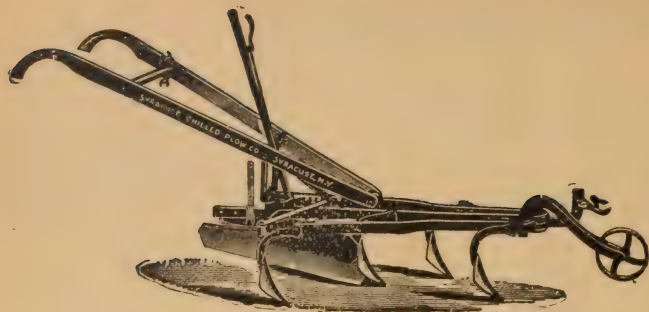
Price, \$8.50.



No. 64.

The No. 64 Cultivator, with expanding lever, is excellent for use in rough and stony, or smooth land, and for the cultivation of orchards, or for field work. The frame is of steel, strongly put together, and adjustable to wide or narrow rows. The teeth are interchangeable and adjustable both for angle and depth.

Price, \$6.00.



No. 101.

No. 101. Syracuse Steel Cultivator.

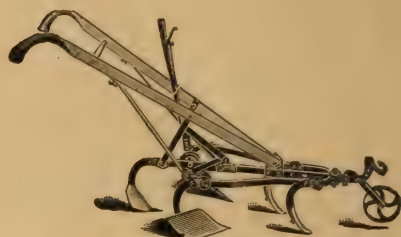
Has expanding lever, five points, hiller sweeps and wheel, and is made with an extra long and heavy frame.

Price, \$7.00.

No. 123. Syracuse Steel Cultivator.

Has expanding lever, five 3-inch points, wing points, shovel point, and stationary wheel.

Price, \$5.00.



No. 123.

No. 124. Syracuse Steel Cultivator.

Expanding lever, five 3-inch points, hiller sweeps and wheel.

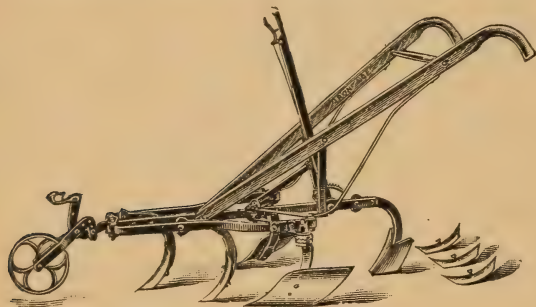
\$5.50.

No. 114. Syracuse Spike Tooth Cultivator.

Extra long frame, with reversible teeth; made for hard work.

Price, \$5.75.

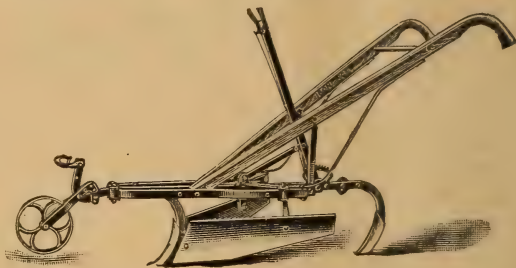
"DIXIE" Horse Hoe and Cultivator.



Frame, high and long, runs steadily, and clears easily.

All attachments of solid steel, perfectly constructed, and will stand severe strain without injury. Expansion lever, quick adjustment. \$5.50.

"DIXIE," with Hilling Attachment.



The hilling attachment is applied by simply removing four standards and placing the standard of the hiller on the middle bar and attaching the short standards of the blades to the side bars. This attachment is used in cases where higher ridging is desired than what can be accomplished with the regular horse hoe blades.

Price, \$6.25.



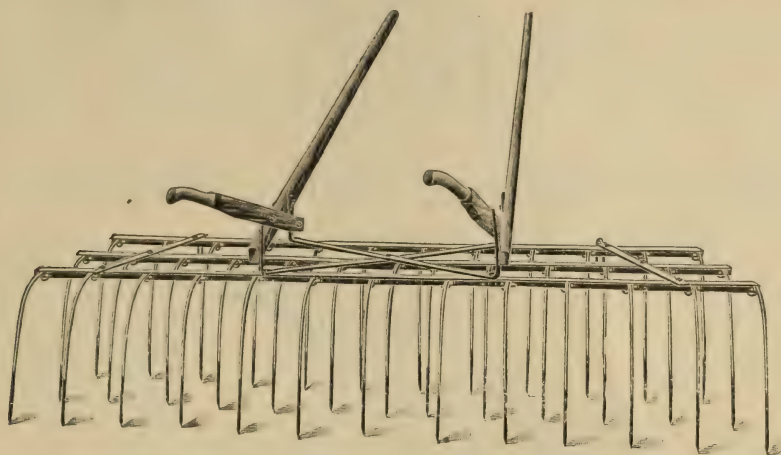
DIAMOND TOOTH CULTIVATOR.

As plainly shown in cut, the teeth are diamond shaped, with a small cultivator tooth forged on one end—steel, of course. For very close work, every other tooth can be quickly removed. Cultivating width, when equipped with lever expander, 34 inches.

Price, \$5.00.

THE "K. & W." WEEDER.

Teeth of Square Spring Steel with Round Points.



In a square steel tooth it is possible to obtain greater flexibility, and this is the **all-important** feature of a **weeder**.

The **square teeth** being narrow in the body will not whip and bruise the growing plants as much as flat teeth, which are wide in the body. This style tooth allows more clearance and prevents clogging.

Our **square tooth** has no bolt hole punched in it, but is of **double strength** at the head, where bolt secures it to the frame.

The **frame** is made of angle steel of high carbon, combining strength and flexibility. The handles and shafts are adjustable.

Price furnished on application.

THE "KEYSTONE" ADJUSTABLE WEEDER.

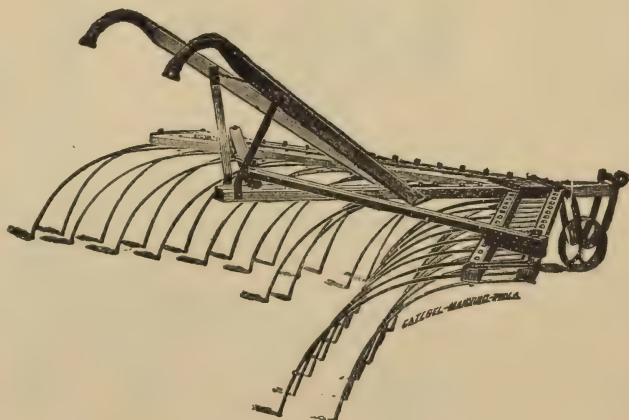
The "Keystone" is the only weeder that is adjustable to depth and width. It can be used as a shallow cultivator, working close to the plants, between the rows, until the crops mature.

Will not clog. The long, curved, spring teeth are so placed and shaped that clogging is impossible.

Can be weighted down and teeth will stand 150 pounds pressure.

Keeps the surface fined to admit air, thereby creating a mulch that absorbs the moisture and retards evaporation.

Can be expanded to 7½ feet and narrowed to 30 inches.



PRICE.

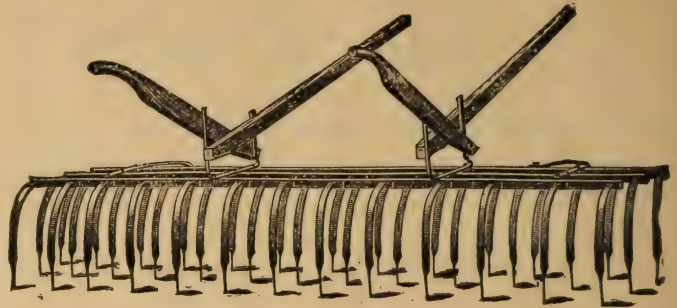
Round Tooth,	\$11.00	Flat Tooth,	\$11.50
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THE HALLOCK WEEDER.

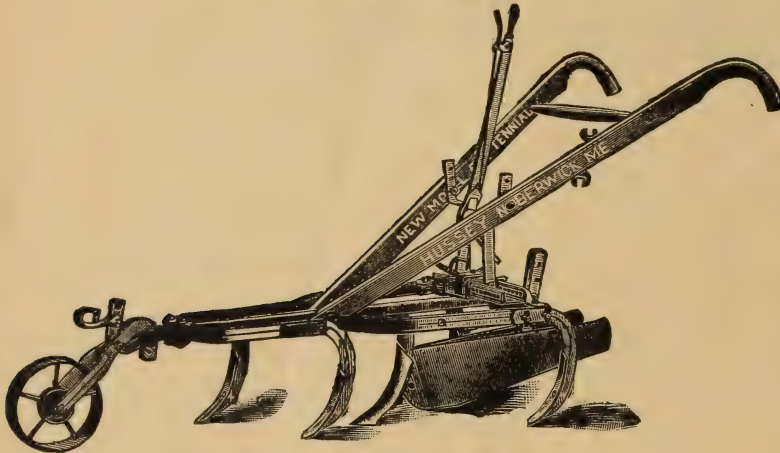
The attention of farmers is called to the great saving effected in time and labor by using the Hallock Weeder. As many as eight rows can be worked at one time.

One of the best machines for level cultivation, will not injure the roots of growing crops, but kills out the weeds, and leaves a fine mulch on the surface of the ground.

Price, \$10.00.



"NEW MODEL CENTENNIAL."



No. 1 NEW MODEL CULTIVATOR.

The "New Model Centennial" Horse-Hoe, Cultivator and Coverer combined, has long been recognized as an implement of unusual merit. The simplicity and fewness of parts required for changing it over to suit the various kinds of work to which it is adapted, and its unique and very efficient expansion lever are among the reasons for its popularity.

An important improvement has recently been made in the one-inch reversible points for this cultivator. The illustration at the right shows the improved point with the strengthening flanges. It will be readily seen that the flanged point is not only much stronger than the old style, but the flanges prevent the point from swinging around on the standard in rough and rocky land.

Equipped with eight of these narrow flanged points, the No. 8 is one of the very best pulverizing cultivators on the market.

No. 8. An extra implement at small additional expense.

The regular 5-tooth Horse Hoe, Cultivator and Coverer combined (No. 1), or an 8-tooth Pulverizer, on same frame.

The long frame of the "New Model Centennial" allows us to add the extra teeth without danger of clogging.

No. 8.
has 8 1-inch points,
long wings and lever.

No. 1.
has 5 3-inch points,
long wings and lever.



Back of Improved
Point 1 inch wide.

"New Model Centennial"

No. 8

As a **PULVERIZING CULTIVATOR**

with very **FINE TEETH.**

HAS 8 1-INCH REVERSIBLE FLANGED POINTS.

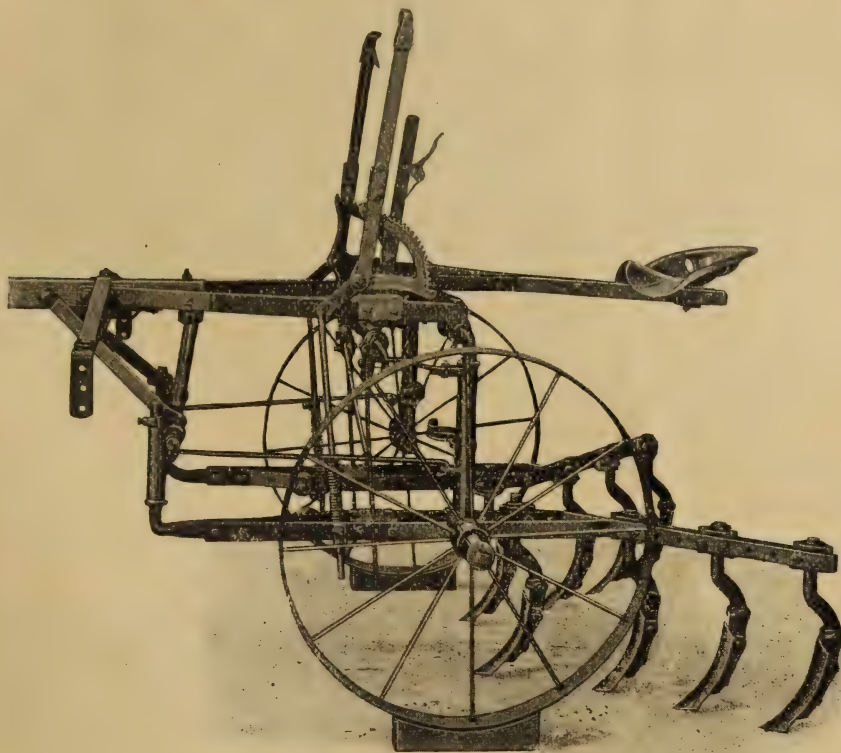


No. 8 as a PULVERIZING CULTIVATOR with FURROWING WINGS DETACHED.

PRICE—No. 1, \$6.50; No. 8, \$7.50.

SATTLE'S NO. 40 PIVOT WHEEL, SPRING TRIP CULTIVATOR.

Strong—Simple—Easily Operated—Readily Adjusted.



The Sattley is particularly adapted to the requirements of truck gardeners, potato farmers or general farmers, and is an especial advantage in cultivating hilly ground or very crooked rows.

It is constructed entirely of steel and malleable iron. This naturally gives it extreme strength. The construction throughout is so designed that each piece and part assists in bracing and strengthening the general make-up of the implement.

The frame is of one solid piece of heavy bar steel. There are no bolted corners or connections to work loose or to spring under excessive strain.

The wheels being very low (32 inches), naturally compel the cultivator to respond very quickly to the guiding of the foot stirrups, and the wheels are very easily guided because the pivoting points of the axles are practically opposite the center of the wheels and operate upon hard steel bearings.

The width can be quickly changed as required for cultivating rows of any distance from 28 to 48 inches apart.

EQUIPMENT.

The No. 40 is equipped regularly with eight break-pin standards, with $2\frac{1}{2}$ -inch double edge points. The special equipments listed below can be furnished, if desired, at a small additional cost.

Spring Hoes. Our spring hoes are attached with the same clamps as the regular break-pin hoes. They are exceptionally well designed and operate perfectly. They carry the same style reversible points as the regular equipment.

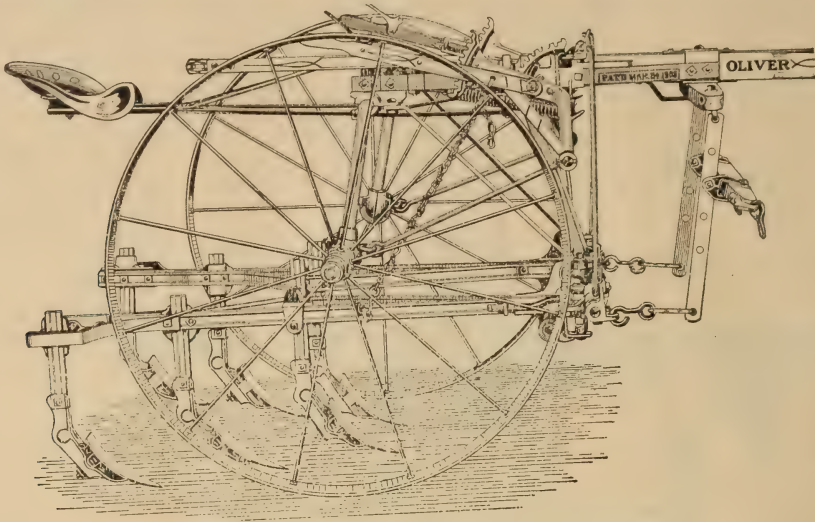
Disc Attachment. This attachment is used for ridging, and also for turning the soil from growing plants, or for covering. The discs are attached to the inside of each gang and work up close to the plants. They are a great advantage for the purposes for which they are intended.

Hilling Attachment. This attachment consists of a pair of very broad curved shovels which attach to the inside standards of the regular beam. They are designed for much the same purposes as the disc attachment described above, and are very efficient in their operation.

Extension Brackets. These extension brackets attach to the outside end of each beam and provide for carrying an extra hole for the purpose of cultivating extra wide rows.

Price furnished on application.

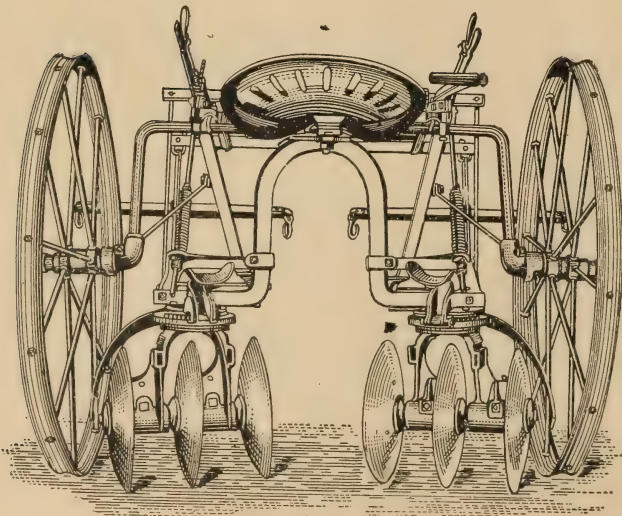
OLIVER RIDING CULTIVATOR NO. 1.



This cultivator has not only satisfactorily met factory tests, but it has gone out in the field and shown what it could do, and how well it could do it, and having been on the market and in actual service during four entire seasons, the field tests have been most extensively made.

The pivotal seat bar guides the frame and gangs, making unnecessary the use of hand lever, or complicated pivotal foot levers. The guiding of the cultivator, independent of the horses, is completely under the operator's control and the seat bar guide also automatically keeps the cultivator from drifting on hillsides, making it one of the easiest guiding cultivators made.

OLIVER DISC CULTIVATOR.



The accompanying illustration shows the Oliver Riding Cultivator equipped with discs instead of teeth. As a hard ground cultivator it has no equal, and for many kinds of soil it is one of the most perfect cultivators and pulverizers manufactured. The mechanical arrangements for operating this disc cultivator are similar to the No. 1, as shown above.

Price furnished on application.

"IRON AGE" RIDING CULTIVATOR.



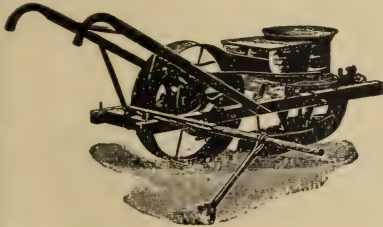
Pivot wheels — ball-bearing — gang-adjusting lever, strong steel wheels, and, although it is light and simple in construction, it is very strong, and possesses advantages not contained in far more complicated tools.

Price furnished on application.

THE KING OF THE CORN FIELD.

Corn Planter and Fertilizer Distributor.

PLANTS CORN, BEANS, PEAS, BEETS AND OTHER SEEDS OF LIKE SIZE.



This planter is perfectly adapted to every requirement; durable and simple in construction, not liable to get out of order, and is arranged to drop any desired quantity of seed or fertilizer at a time, at equal and various distances apart, in hills or drills of uniform depth. The seed-dropping device is positive, never misses or skips a hill.

Price, \$20.00.

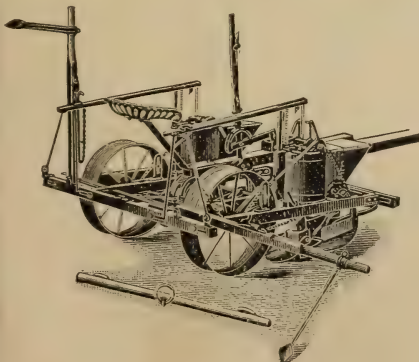
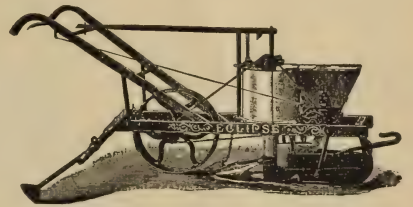
Descriptive Catalogue mailed on application.

ECLIPSE CORN PLANTER

And Fertilizer Distributor.

For Planting Field or Ensilage Corn, Beans, Peas or Beet Seeds, in Hills or Drills.

Price, \$20.00.



ECLIPSE DOUBLE ROW CORN PLANTER.

Will distribute from 50 to 600 lbs. fertilizer to the acre. Can be adjusted to make the rows 36, 38, 40 and 42 inches apart.

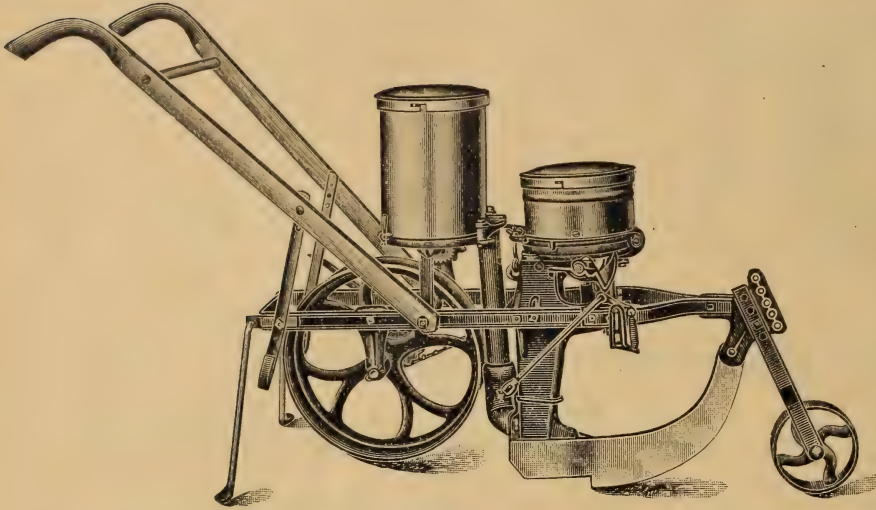
Plows can be adjusted to plant corn from one to four inches deep, as desired.

Price, \$45.00.

Descriptive Catalogue mailed on application.

SATTLEY SINGLE-ROW CORN PLANTER

(Hill Drop or Drill),
WITH FERTILIZER ATTACHMENT.



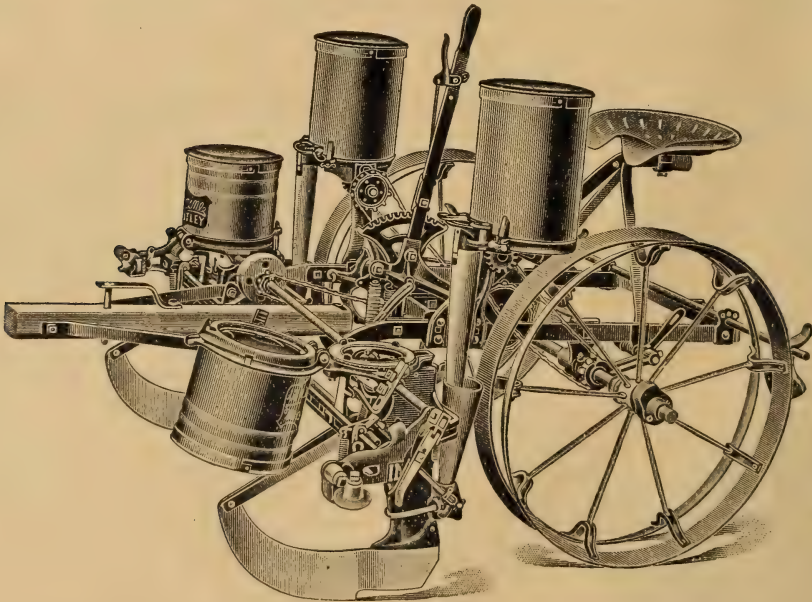
This Corn Planter embodies a number of advantageous features never before attempted in a one-row planter. The method of providing for both hill and drill drop is the simplest and most convenient to be found on any planter. It is built for strength, combined with comparative lightness. It has a rigid one-piece frame to which all parts are securely bolted and braced. The heavy steel runner is extra long, with an easy curve that prevents its becoming clogged with trash. The gauge wheel is adjustable for depth as desired. The large press wheel acts also as a drive wheel,

and its very broad face provides abundant traction for operating the fertilizer and dropping mechanism. Both flat and edge drop plates in large, medium and small sizes are furnished regularly with each planter. Special plates can be furnished at small extra cost for planting peas, beans and similar seeds.

Price, \$20.00.

SATTLEY TWO-ROW CORN PLANTER,

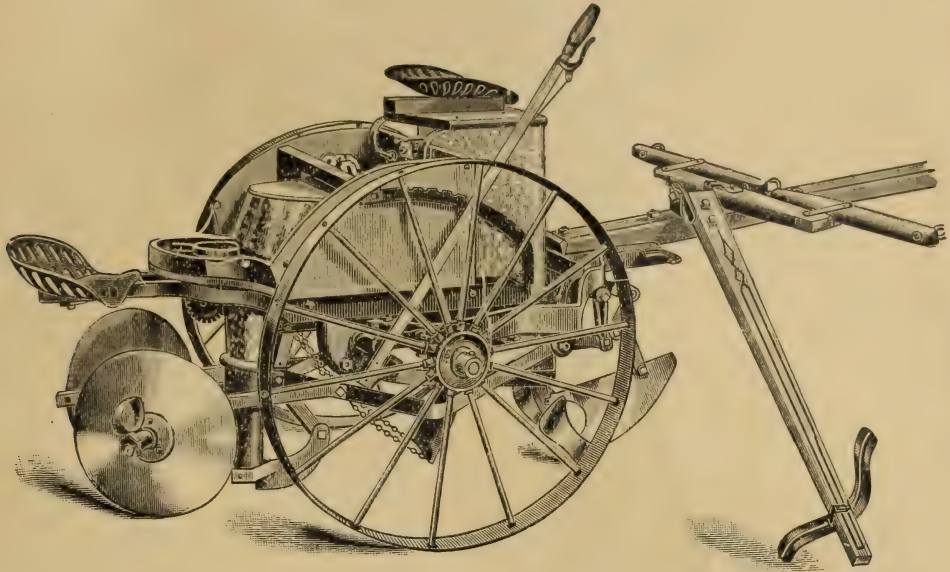
WITH FERTILIZER ATTACHMENT.



Similar in construction to the single row planter, but having twice the capacity. Especially recommended where a large acreage is to be planted.

Price, complete with check wire, \$55.00.

THE "IRON AGE" (Improved Robbins) POTATO PLANTER.



This planter is one of the most thoroughly constructed machines offered to the farming public. It is carefully made of the very best materials and consequently is strong, durable and thoroughly practical.

It does not injure the seed, although it is all handled automatically.

It places every seed piece exactly as you want it.

It sows fertilizer at the same time, but none of it where it touches the seed.

It is light weight, light draft, strong, compact and is easy on the horses.

With the boy on the rear seat you can be absolutely sure that a seed piece is in every place and one only.

Plain or with Fertilizer Attachment.

Price, No. 1.—Potato planter with fertilizer distributor (plow with shield), \$70.00.

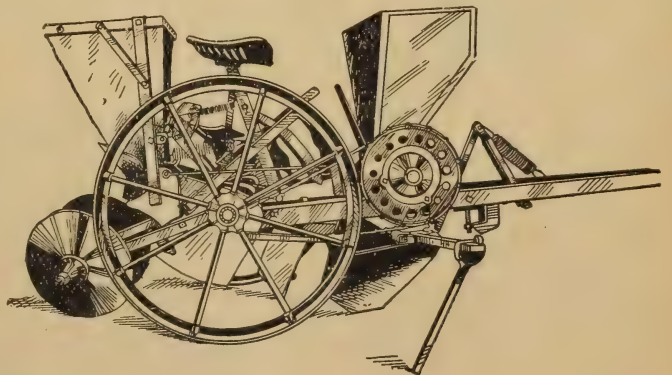
Send for Illustrated Catalogue.

ASPINWALL POTATO PLANTER.

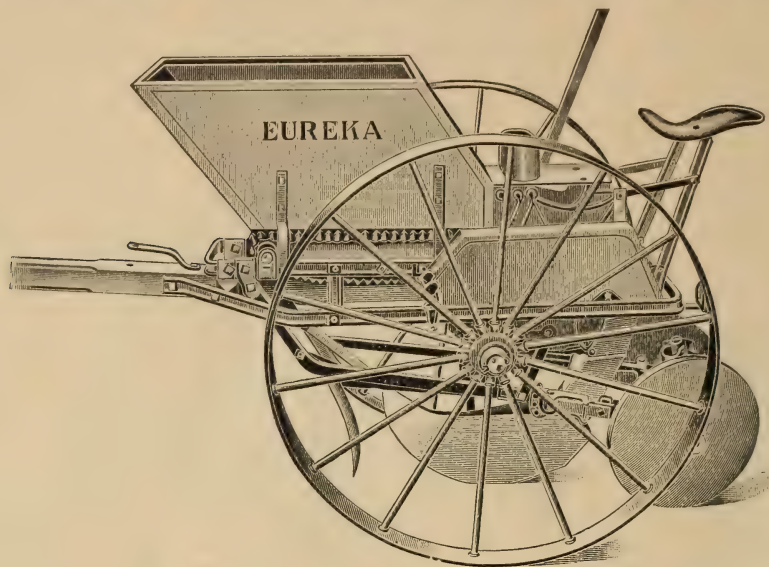
No. 3.

Has been in successful operation in Maine for more than twenty years, and is one of the best machines of its class on the market.

Price, with fertilizer attachment and disc coverers, \$70.00.



EUREKA POTATO PLANTERS.

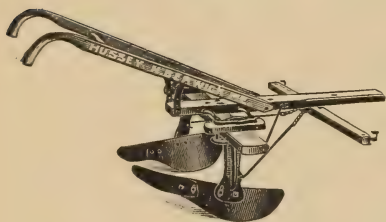


No. 11. Eureka, One Row, Two Horse, One Man, Potato Planter.

Light weight. Main frame made entirely of steel. Lightest draft. Wheels are higher and have wider tire than other makes. Under perfect control of driver. Does not require two men. Seed pickers in plain view. No guessing about accuracy. Plow placed directly under axle, and always runs at uniform depth. Covering discs close to plow. One lever puts machine in and out of gear, and raises and lowers plow, discs and markers. Planter is perfectly balanced. No neck weight. Seed hopper feeds automatically to picker box. Pickers are special construction and perform more accurate planting and uniform spacing than other styles. Pickers do not squeeze, crush or bruise the seed. Sprockets are easily attached to change the distance of dropping seed. All working parts of planters are in plain view of driver. Eureka planters are sold with and without fertilizer attachment. No fertilizer comes in contact with the potato seed.

Price, \$68.00.

IMPROVED POTATO HOE, FURROWER, MARKER AND COVERER.



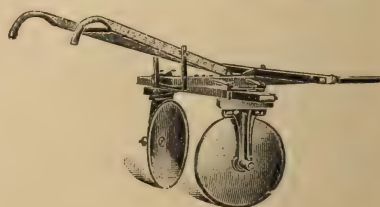
The Improved Potato Hoe is, as its name indicates, especially adapted for hilling potatoes, banking celery, and also as a coverer. It is much used as a "marker" for different crops, making the rows parallel and equally distant.

Price, \$7.00.

"K. & W." Improved 20-inch Disc Potato Hoe.

Considered by many farmers the best hoe made for hilling and covering. A distinct departure from the styles commonly in use, the large discs doing smooth and perfect work.

Price, \$9.50.



THE WORCESTER-KEMP MANURE SPREADER.

Suits All Classes of Farmers and Every Variety of Farming.

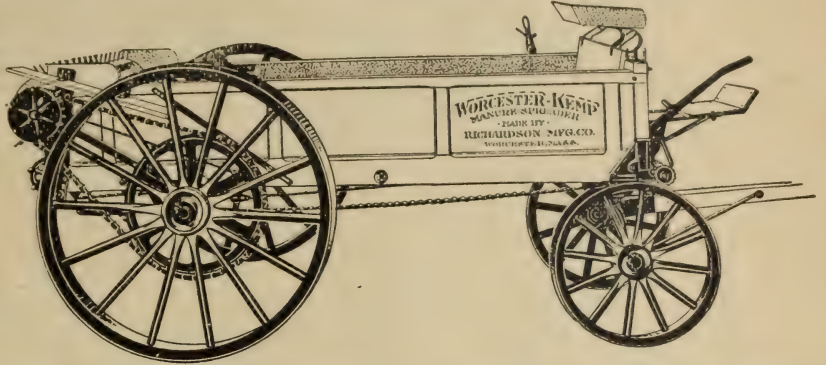
There are no rakes, comb-boards or other obstructions to pitch over in loading, from the rear end. It is built low to the ground, but has high wheels, roller bearings, and is guaranteed to draw easier than any other machine, the weight of load and thickness of spread considered.

The Worcester-Kemp is the best designed, strongest, simplest and most perfect working spreader in the world. Very little machinery and easy draft assured. Patented jointed end gate makes a tight box and acts as a pulverizer when the load is being spread. Direct draft through draft rods to rear axle. Operated by a single lever at the driver's right hand.

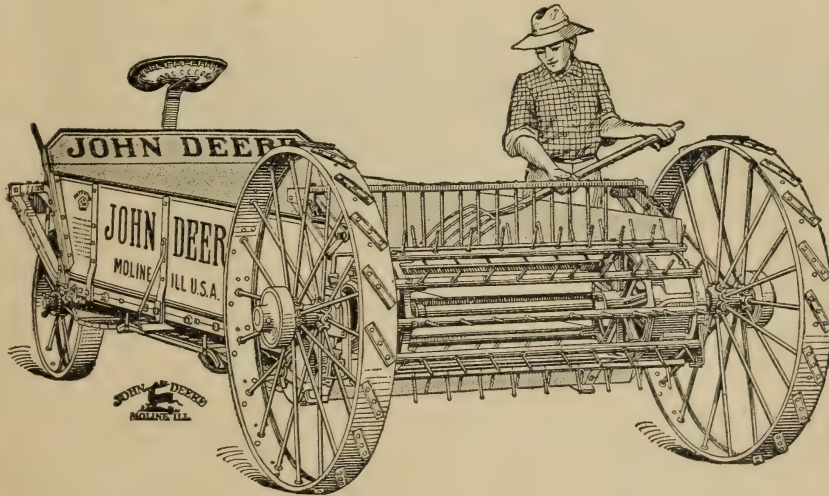
Special gears furnished for spreading ashes or lime and for spreading thicker than twenty loads to the acre. A drill attachment is furnished for market gardeners for drilling the manure into rows after it is pulverized, and a wind break is furnished, if necessary, for windy weather.

The inspection that every Worcester-Kemp receives before leaving the factory is critical. Every spreader is put together and run until it is in perfect condition.

Write for quotations.



JOHN DEERE SPREADER.



The John Deere Spreader—the spreader with the beater on the axle—has only one-half as many parts as the simplest spreader heretofore manufactured. All its working parts are mounted on the rear axle. It has no chains, no clutches and no adjustments. Being low down, it is easy to load. The manure is taken from in front of the main axle and delivered at the rear of it. There are no clutches to give trouble, no chains to get out of line, and no adjustments to be made. All the strain and stress of

spreading is borne by the axle, and none of it is transmitted to the frame or the body of the machine itself. It is simply a wagon when out of gear.

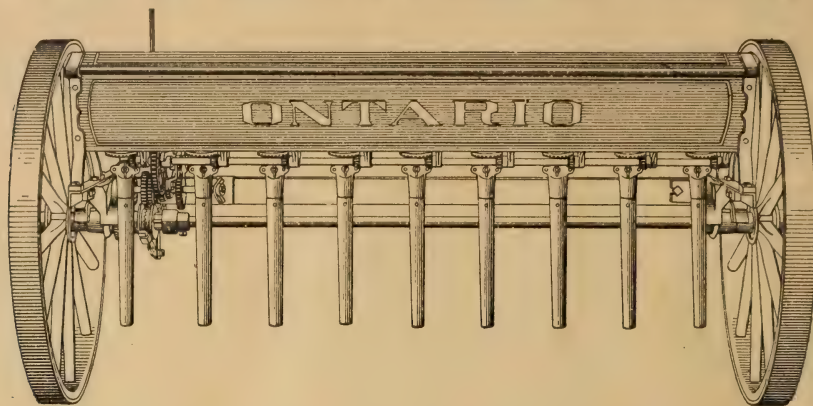
Wheels at the rear of the machine do not interfere with loading. The entire side of the spreader is accessible for that purpose.

This spreader has from one hundred to one hundred fifty types of castings less than the simplest spreader heretofore made. As the machine is low down, it is only necessary to lift the manure thirty-eight inches in loading, as high as your hips. Each forkful of manure can be placed where it is wanted, because it is possible to see into the bed at all times. Loading the spreader evenly assists greatly in insuring uniform spreading.

The John Deere Spreader is very simple—it does not get out of order, and is always ready for business. Anyone can operate it.

Write for quotations.

Ontario Fertilizer Broadcaster and Rower.



Is the only positive force-feed machine of its kind made in which the conductors have a lateral adjustment. Its use is not confined to plaster, bone dust and other mealy fertilizers, for it handles lime and all commercial fertilizers, and is the best device known for handling those of home manufacture.

Sows broadcast or in any width of rows from eight inches up to five feet, in quantities ranging from two hundred to two thousand pounds per acre.

Is equipped with a land measure that does not get out of order. It accurately measures the acres and fractions of acres sown, and is easily set at the nothing mark.

Price, \$45.00.

Ontario Plaster Sower and Broadcaster.



(With Rotary Agitator.)

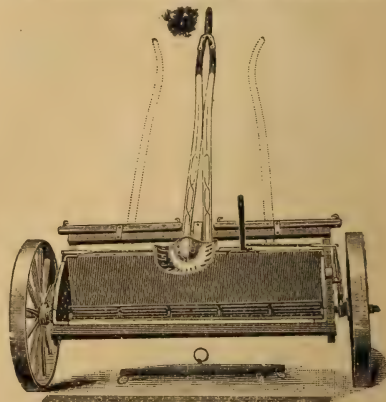
One of the finest machines for sowing **broadcast** all kinds of fertilizers, ashes, lime, plaster, etc.

Price, \$35.00.

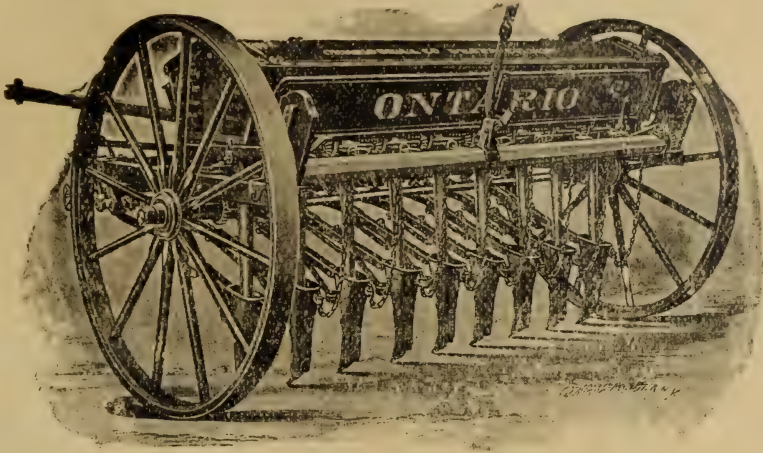
STEVENS' Fertilizer Sower.

Combining Simplicity, Strength and Durability. Excellent for Sowing all Kinds of Fertilizers, Broadcast or in Drills.

Price, \$40.00.



ONTARIO COMBINED (Grain and Fertilizer) BACK-ROLLER HOE DRILL.



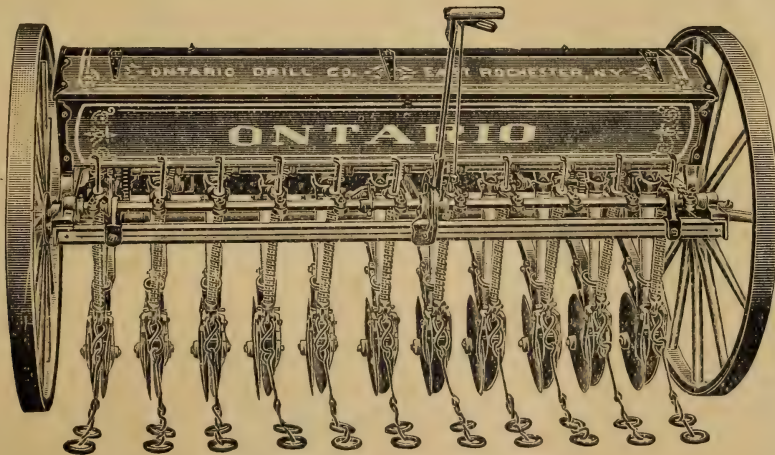
Built in all sizes, both as a combined or plain drill.

LIGHT DRAFT—PERFECT BALANCE—EASY LIFT.

The body is made of well-seasoned, kiln-dried lumber, put together in a workmanlike manner. The grain hopper of the smallest drill (8 x 8 or 9 x 7) holding two bushels, and the fertilizer hopper being of considerably larger capacity.

Price, \$90.00.

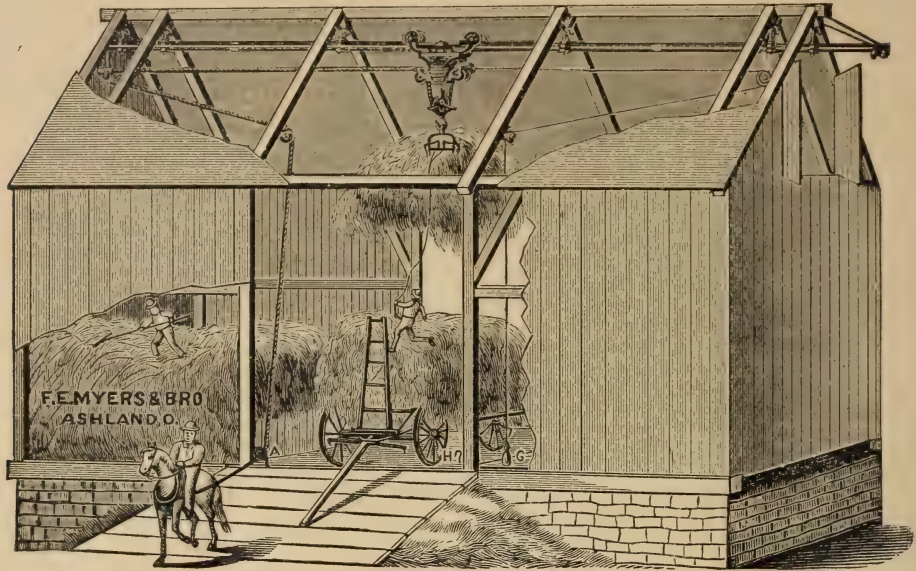
ONTARIO COMBINED (Grain and Fertilizer) DOUBLE DISC DRILL.



Embodies all the special features of Hoe Drill, excepting discs are used instead of hoes. It has the same broad tread wheels, accurate grain and fertilizer feeds, heavy axle, simple feed devices, accurate grass seeder and land measure, and the same light draft.

Price, \$95.00.

CUT SHOWING HAY CARRIER AT WORK.



MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT FOR DIFFERENT LENGTH BARN.

FOR A 40-FOOT BARN.—One reversible carrier; 40 feet steel track; 21 hanging hooks; 21 rafter brackets; 5 pulleys; 1 D. H. fork; 6 floor hooks; 110 feet $\frac{3}{4}$ -inch Manila rope; 50 feet $\frac{3}{8}$ -inch trip rope.

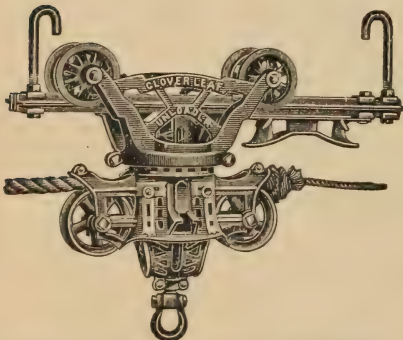
FOR A 50-FOOT BARN.—One reversible carrier; 48 feet steel track; 25 hanging hooks; 25 rafter brackets, 5 pulleys; 1 D. H. fork; 6 floor hooks; 130 feet $\frac{3}{4}$ -inch Manila rope; 55 feet $\frac{3}{8}$ -inch trip rope.

FOR A 60-FOOT BARN.—One reversible carrier; 60 feet steel track; 31 hanging hooks; 31 rafter brackets; 5 pulleys; 1 D. H. fork; 6 floor hooks; 160 feet $\frac{3}{4}$ -inch Manila rope; 60 feet $\frac{3}{8}$ -inch trip rope.

Different lengths of barns will use track, hanging hooks and rope in same ratio as above.

Above estimates of rope are for an *end hoist*. In hoisting from *center* of barn less rope will be required.

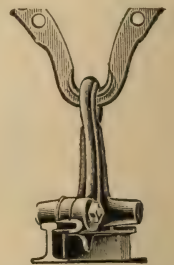
When requesting quotations do not fail to give exact length of barn, whether ridge pole or full rafter, and distance between rafters. Also state whether you expect to hoist from end or center of barn.



MYERS' STEEL TRACK CARRIER.



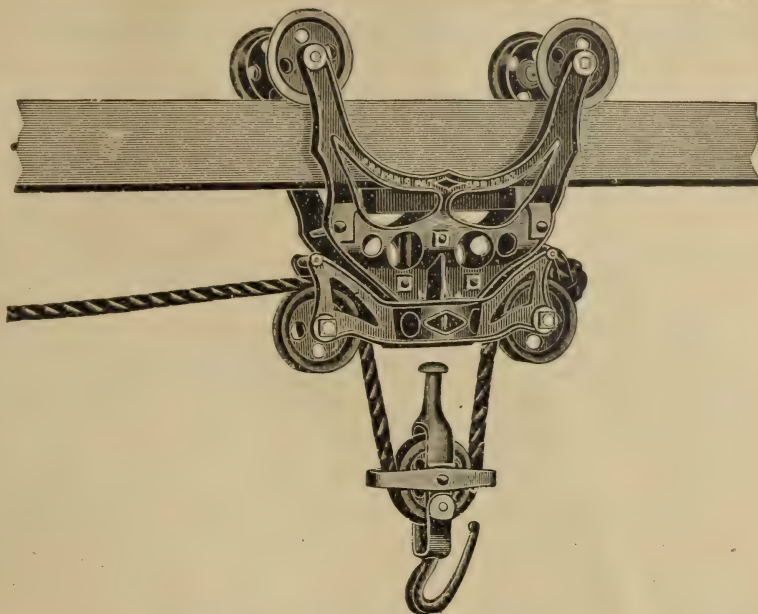
Rafter Bracket.

Rafter Bracket
with Stop.

Write for quotations.



Hanging Hook.



DIAMOND WOOD TRACK CARRIER.



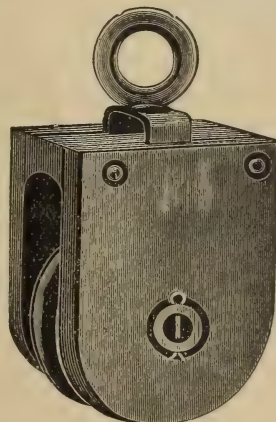
Screw Eye Hanging Hook.



Double Harpoon Fork.



Floor Hook.



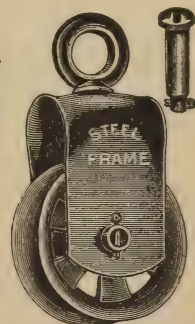
Reed Pulley with Hook or Eye.



Knot Passing Pulley.



Steel Rafter Grapple.

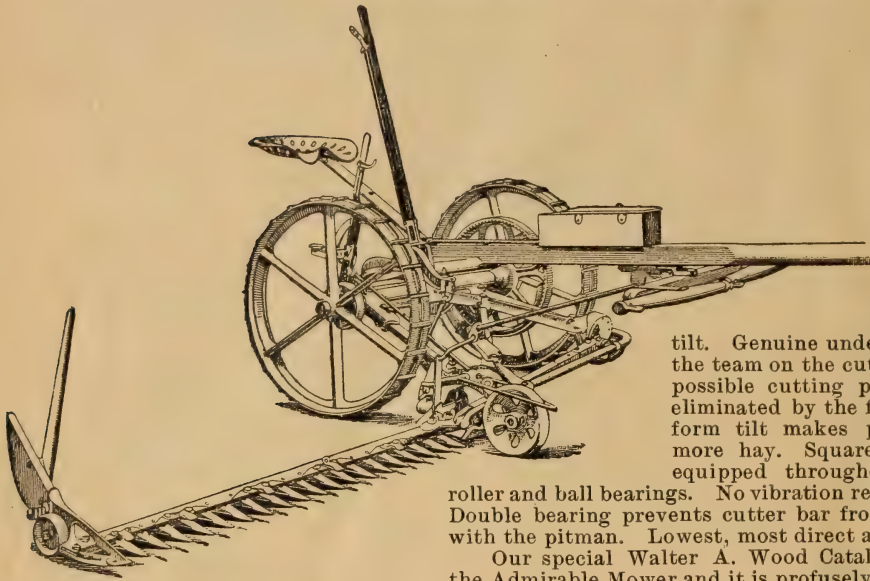


Steel Frame Pulley.

—Write for quotations.—

The Walter A. Wood Line of Machines and Implements for the Farm.

ADMIRAL MOWER.



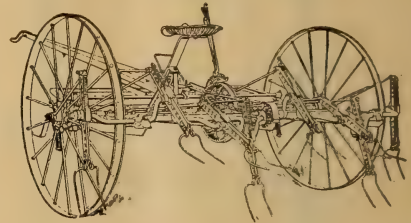
The Admiral Mower is the latest of the long line of Walter A. Wood mowers extending back to 1852. It possesses all of the features that have made Walter A. Wood mowers famous the world over, and in addition has many new improvements. It is the only mower in the market built on the floating frame principle and having genuine underdraft and uniform

tilt. Genuine underdraft puts all the pull of the team on the cutter bar, giving the greatest possible cutting power. All neck weight is eliminated by the floating frame, and the uniform tilt makes possible cleaner work and more hay. Square unyielding frame, finely equipped throughout with brass bushings, roller and ball bearings. No vibration reaches either driver or team. Double bearing prevents cutter bar from sagging back out of line with the pitman. Lowest, most direct and powerful thrust.

Our special Walter A. Wood Catalogue thoroughly describes the Admirable Mower and it is profusely illustrated.

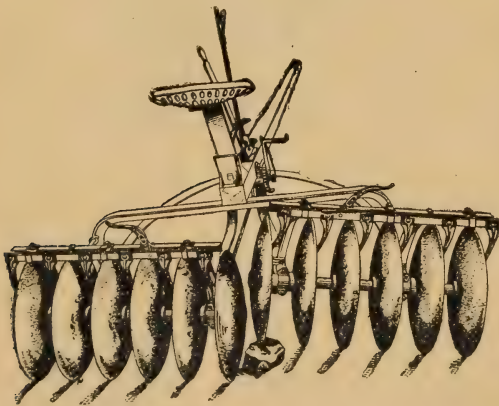
THE WALTER A. WOOD TEDDER.

The Wood Tedder is built very strongly and substantially. Its construction will withstand all the jar and strain caused by the rapid motion of the fork arms. Strong springs absorb the vibration so that it does not reach either driver or team. Power is transmitted by chain and sprocket from the main axle to the fork arms so that the mechanism works smoothly and evenly. The motion of the forks has been so timed as to toss every bit of hay. Outside forks toss the portion just passed over by the wheels. It is equipped with roller bearings in the places where friction would be most likely to occur.



THE WALTER A. WOOD DISC HARROW.

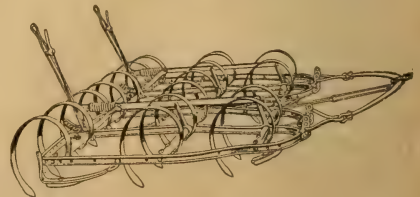
In addition to being constructed of the best material and in the most workmanlike manner, the Wood disc harrow is the only one possessing perfectly loose and flexible gangs controlled by adjustable spring pressure. This pressure is regulated by means of a foot lever to correspond with the work that is being done. The results of this feature are: Saving of discs, reduction of draft, and great improvement in cultivation. Among the many disc harrows in the market, the Walter A. Wood stands out because of its **spring flexible features**.



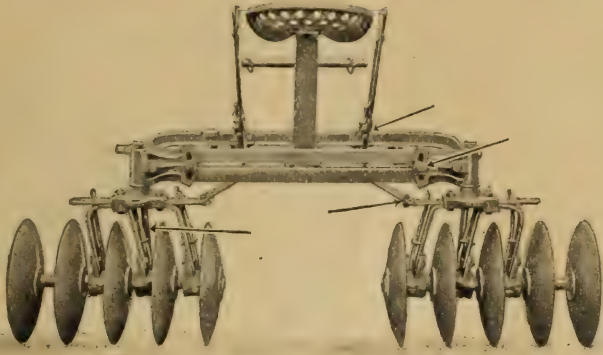
WALTER A. WOOD SPRING TOOTH HARROW.

Relief Spring—Saves the Team—Prevents Breakage.

Built of the highest quality of material, I-beam frame, U-bar tooth bar. The only harrow equipped with spring which enables the teeth to yield to unusual obstructions when the adjustable lever is locked in position.



The Walter A. Wood SINGLE ACTION REVERSIBLE DISC HARROW.



Can be made, in a few minutes' time, into either an "in-throw" or an "out-throw" harrow. On some land, and in some kinds of soil, an in-throw harrow does very efficient work, leaving the land in most excellent condition. In this implement the farmer has practically "two harrows in one", and thus can successfully work any and all kinds of soil to the best advantage.

Send for copy of Walter A. Wood Catalogue, which fully describes and illustrates these and other members of the Wood line.

Prices on application.

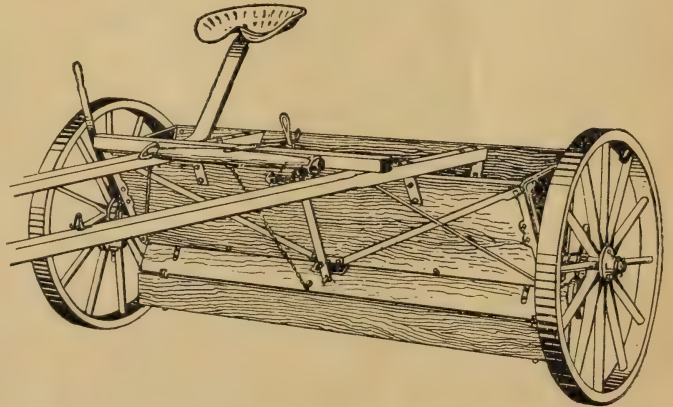
The Worcester Fertilizer Distributor. Simple, Strong, Durable.

SOWS IN ROWS OR BROADCASTS.

This machine is built with a rotary agitator, combining the good features of all distributors and using a number of new devices not found on any other. It is a very simple, strong machine.

Shaker-board broadcasts evenly and supports a windbreak that saves the fertilizer. A hand shaker allows the driver to shake the load into the bottom of the box and so keep the machine spreading evenly. The usual steel feed plate is replaced by

short sections of cast iron plate that are separated from the lower steel feed plate by liners. Iron and steel do not rust together and the liners still further help. Sows any quantity.



Price on application.

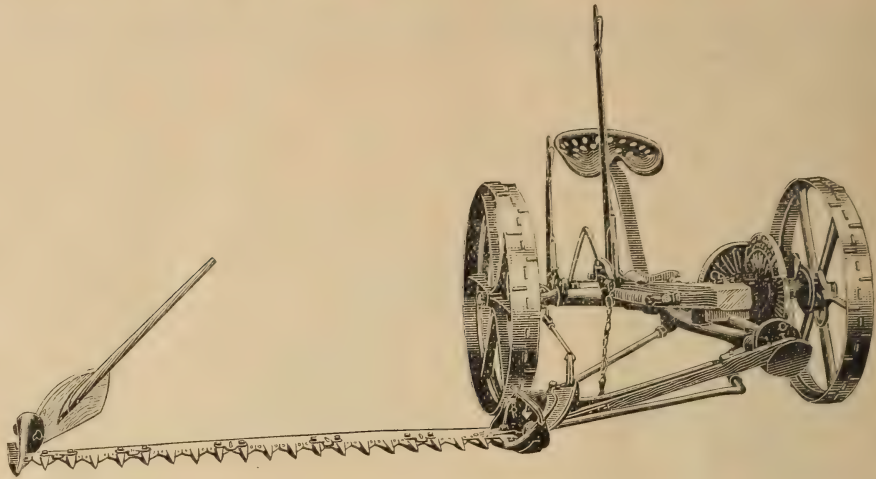
THE WORCESTER BUCKEYE MOWER.

EASY TO HANDLE

LIGHT DRAFT

QUIET RUNNING

LONG WEARING



ONE HORSE.
3½ foot cut.
4 foot cut.

TWO HORSE.
4½ foot cut.
5 foot cut.
6 foot cut.

These mowers are made in three sizes. The one-horse mower is the smallest, but is designed just right to carry a 3½ or a 4 foot cutter bar. The 4½ and 5 foot is a broad and strong mower, carrying the bar steadily. The 6 foot is a very broad frame, heavier than either of the others, and extra strong.

The **Worcester Buckeye** is sold everywhere in the east and is popular wherever it is sold, but it was first built for Maine and Massachusetts. It is particularly well made. Try one of the new ones, and you will like it better than any mower you have ever seen. Runs like a watch.

Price on application.

The Bullard Hay Tedder.



Takes the hay up from the bottom, shakes it in the air and leaves it lightly on the ground for the sun and air to complete the work of hay-making. Does not shake to pieces. Is elastic but tough.

The crank shaft split in the middle makes it easy for the horse to turn.

Two tension springs on the tilting frame, together with the new Mudgett fork springs, prevent breakage of form arm.

The forks on either side are driven independently by the wheel nearest them, so that this tedder can be turned while it works, without straining the tedder or horse, and do good work all the while.

If you want to get a tedder that will do its work in the right way, with the least fuss and bother, and that gives you the most lasting satisfaction, buy a **Bullard**.

Price on application.

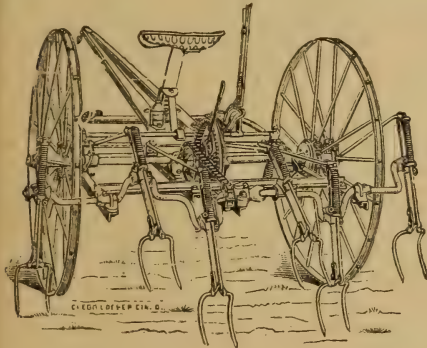
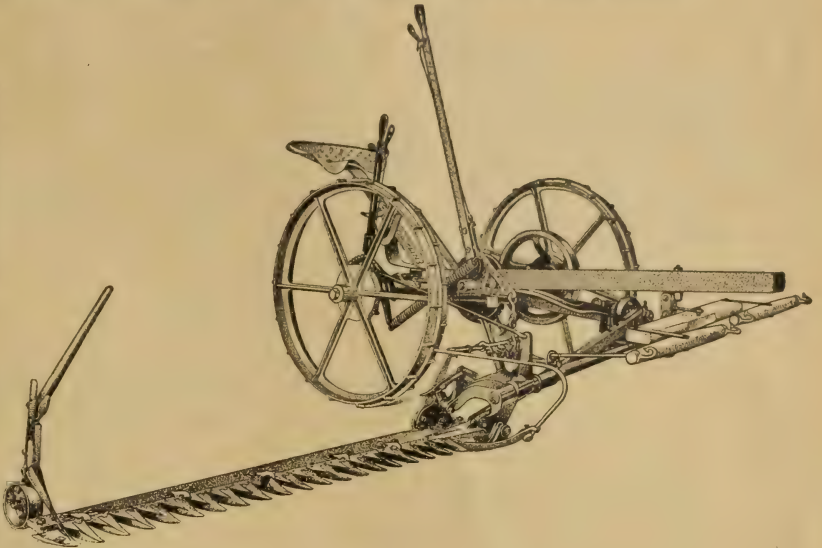
The International Harvester Company of America's Line of Osborne Farm Implements.

THE NEW Osborne Mower.

The new Osborne Mower has made a place for itself in the front ranks of grass-cutting machines. Each detail that means much to the farmer has been worked out with care, and the result is a perfect machine in every respect. Wide frame, broad-faced gears, and a foot-lift that raises the cutter bar high above every obstruction, are a few of the valuable features. The draft attachment should not be overlooked when comfort for the team is considered. Made in all sizes, plain and vertical lift.

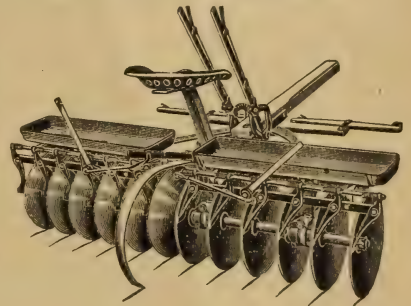
Osborne Center Drive Tedder.

The Osborne Tedder is without doubt one of the strongest made and the only tedder that is equipped with roller bearings throughout. This means easy draft and long wear. The full power of both wheels applied to the forks makes the draft light, and the forks always in perfect adjustment, whether going straight ahead or turning a corner. Sizes: 6 and 8 fork.



Osborne Rival Disc Harrow.

We are very glad to offer our customers the Osborne Disc Harrow, for we know that satisfaction follows every sale. Equipped with weight boxes, center teeth, 3-horse attachment and two levers leaves nothing to be desired. We have it in all sizes, both solid disc and cut-away. Can be furnished with tongue truck if desired.



OSBORNE SPRING TOOTH HARROW.

This harrow is so well known and popular that it needs no description. We simply wish to remind you that we are never without them in stock. Sizes: 9, 15 and 17 tooth. We carry the sulky harrow in 15 and 17 tooth.



Osborne Corn Harvester.

The Osborne corn binder is a particularly desirable machine for any corn grower to use, because it will handle either short or long corn with equal facility, and pick up, down and tangled corn, delivering it in reasonably good bundles.

Corn is exceedingly hard to cut, and the corn binder that will stand this hard work year after year must have an exceptionally strong main frame. The main frame of the Osborne corn binder is made of bar steel, and thoroughly braced to withstand five times the amount of strain that can ever come upon it.

Has binding attachment similar to the grain binder. Knives are shaped to give a long draw cut on the stalk, and two trips make ample provision for long or short corn.

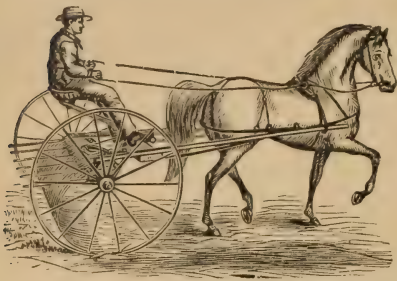
OSBORNE GRAIN BINDER.

The highest type of modern binder construction. Has best quality steel roller bearings, strongest possible main frame, large elevator capacity, dependable binding attachment, cuts successfully, badly lodged and tangled grain, and binds it with unvarying regularity.

Write for prices on all Osborne implements.

THE YANKEE HORSE RAKE.

Some of the Leading Points of Superior Excellence found in the Yankee Horse Rake.



Simplicity in construction and excellent quality of materials.

Adaptability to rake anywhere, whether the fields are rough or smooth or the hay green or dry.

Rake head adjusted so as to balance the weight of the teeth.

This device completely prevents the teeth from dragging heavily and digging into the ground or filling the hay with dirt and dust.

Teeth run level with the ground at their points.

Each tooth is perfectly independent in action and supplied with a yielding spring that will allow it to pass safely over any obstruction that the axle can pass over.

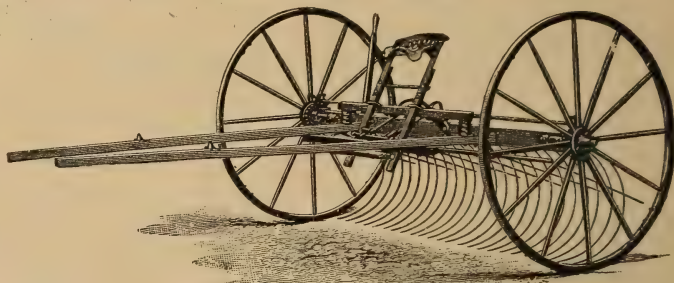
Price on application.

THE "K. & W." HORSE RAKE.

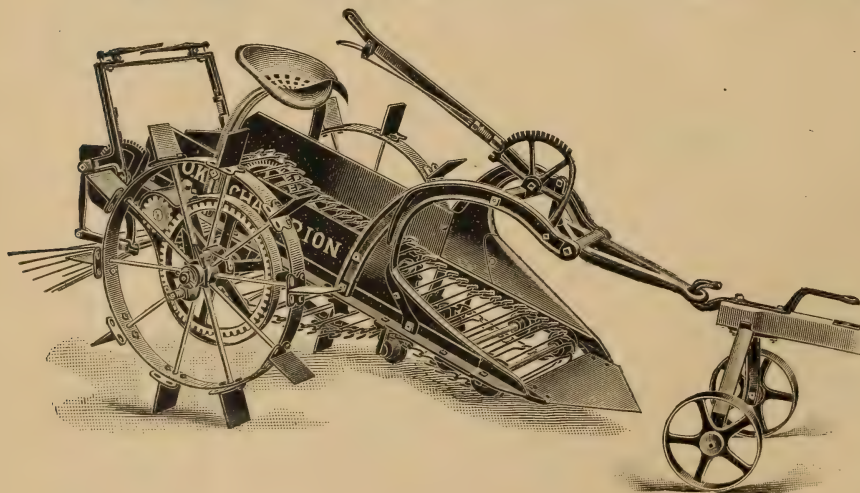
THE WAY THE RAKE YOU BUY OUGHT TO BE MADE.

Wood construction, braced at every corner, steel truss rod under the axle bed, highest grade of material used throughout. Light but strong and will outwear any other rake. Sled-runner teeth, with a coil loop near the upper end. Rakes clean everywhere, but does not dig and never injures the grass roots. Not one new tooth furnished in a hundred sales. This rake will not roll hay. Any boy can handle it.

Price on application.



"O. K." CHAMPION POTATO DIGGER.



The "O. K." Champion Digger, with its many superior features, commends itself to the careful buyer. It is built with a view to simplicity, doing away with all unnecessary wearing parts, which accounts for its easy draught. Two horses will do the work with ease. There is no chain drive to cause friction and wear; only two gear wheels are employed on the entire machine. The shovel is 20 inches wide, scooping up

that width of ground and potatoes, depositing them on the elevator separating apron, whose links are alternately raised and lowered. These run over a sprocket agitator, which keeps the apron continuously agitated, causing the separation to be done with the least possible power requirements, and giving the machine a good separating capacity. The potatoes then fall upon the rear shaking fork row, thoroughly cleaning any remaining dirt from the potatoes, and deposits them in a row of about twelve inches behind the machine.

Made in Two Sizes, 20 and 22 Inch.

Price on application.

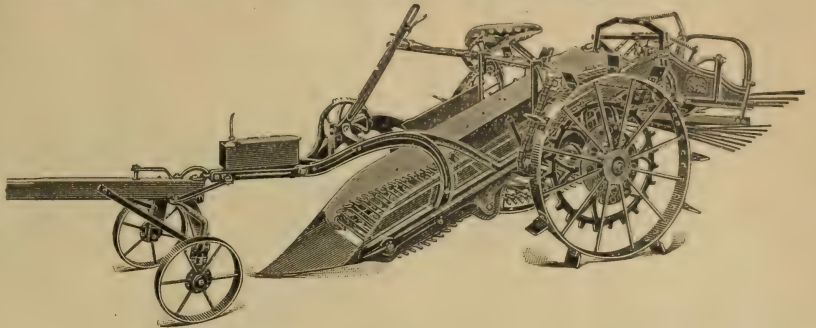
The Hoover Potato Digger.

A digger built on the right principle to do good work, and with years of experience to prove it.

The shovel, elevator, and vine separator are especially constructed to make the Hoover one of the most perfect working diggers on the market.

Made in one size only, 22-inch.

Price on application.

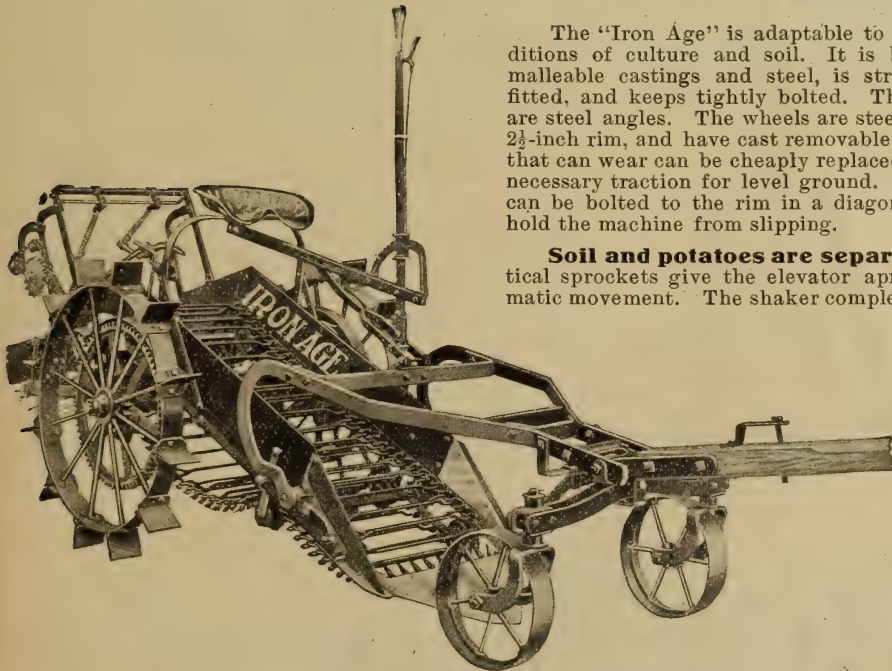


"IRON AGE" POTATO DIGGER.

The "Iron Age" is adaptable to a wide diversity of conditions of culture and soil. It is built almost entirely of malleable castings and steel, is strong, compact, carefully fitted, and keeps tightly bolted. The main frame side bars are steel angles. The wheels are steel, 28 inches in diameter, 2½-inch rim, and have cast removable hub box—the only part that can wear can be cheaply replaced. Steel spurs give the necessary traction for level ground. For hillside work, they can be bolted to the rim in a diagonal position so they will hold the machine from slipping.

Soil and potatoes are separated thoroughly—elliptical sprockets give the elevator apron just the right automatic movement. The shaker completes the separation. The elevator chain (apron) consists of interlocking cross bars of steel, has no unnecessary tension, and is driven direct by gearing from both main wheels.

Made in one size only, 22-inch.



Price

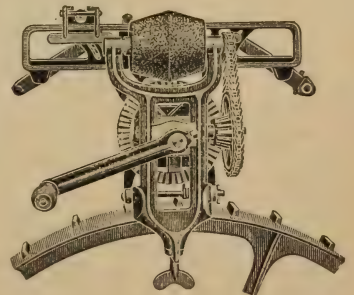
on

application.

THE "DIAMOND" KNIFE GRINDER.

One of the best machines for its purpose ever put on the market, and the easiest to operate. There are **ONLY TWO GEARS** in the entire machine, which cannot fail to make it run easily, and it can be quickly attached to a bench, mowing machine wheel, or other suitable support. The castings are all thoroughly japanned.



Price, \$3.50.



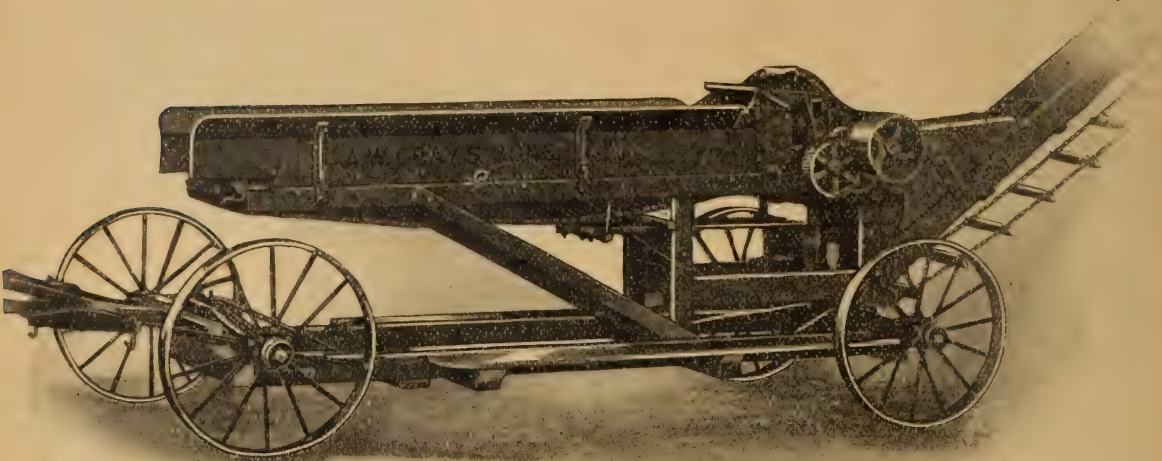
Sections for Mowers and Reapers.

Farmers can have their orders promptly filled by sending directly to us for sections for all kinds of machines. Sections will be polished on both sides, and stamped with the name of the machine for which they are intended.

ALL KNIVES AND SECTIONS WARRANTED.

 In ordering send size of section wanted. 

GRAY'S MOUNTED ENSILAGE CUTTER.

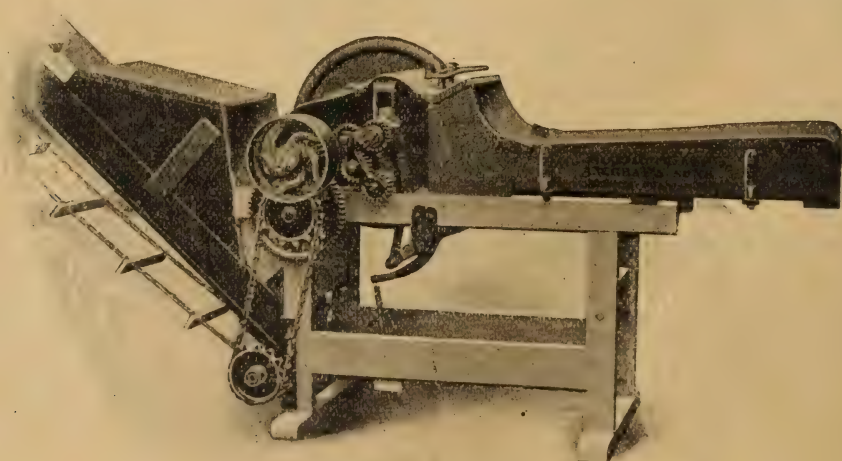


The feed rolls are large, the upper one corrugated and the bottom one smooth, but so arranged that both run at the same speed all the time, and can be stopped instantly from either side of the machine.

These cutters are so built that they will do good work with moderate power, and are very successfully driven by five horse power, and at the same time are strong and capable of standing the test when driven by a large engine and crowded to their full capacity.

They have a number of special features, among which are the especially large throat, capable of taking large corn ears and coarse fodder without clogging, and the arrangement of the knives is such that there is no possibility of the fodder winding.

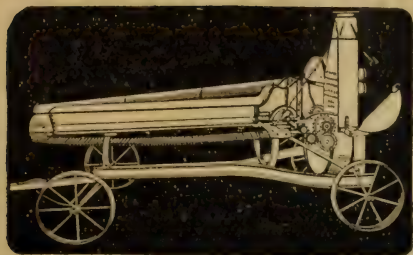
GRAY'S ENSILAGE CUTTER, UNMOUNTED.



Identical in every way with the **mounted** cutter, except that the sides of the feed table are arranged so either or both can be let down by simply lifting a latch, making a broad, flat table if desired.

All cutters are furnished with the necessary gears to cut $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch lengths.

Prices mailed on application.



PAPEC PNEUMATIC ENSILAGE CUTTER AND BLOWER.

The Papec is built of the very best materials and is the strongest, most durable cutter in use.

A perfect blower cutter cannot be made with a wooden frame, because it is affected by weather, which will warp the frame and thus throw the lower drum out of position. Besides this, the wood or riveted frames will become more or less diamond shaped by belting continually to a heavy engine. When this occurs it is impossible to keep the knives the proper distance

from the shear plate. Since adopting the **solid iron frame**, all the cutters work alike and can be depended on to give perfect satisfaction under all circumstances.

The feed table is just the right height for the feeder to stand on the ground and feed the corn comfortably. This enables a man to feed faster than when obliged to stand upon a box or a specially constructed sideboard.

The tongue is easily removed, so that load may be driven up close to the ensilage cutter.

The Papec mounting is strongly constructed of steel channels—no wood to twist and warp.

The Papec is the easiest cutter to set up and take down. Only the pipe has to be put up and removed.

It requires less power to elevate ensilage than a "tied-on blower" machine. The latter requires double the speed of the fan—a waste of power. The Papec is not dependent upon the air blast alone to elevate ensilage. It throws as well as blows. Ensilage is thrown fifteen to twenty feet, then a powerful air blast strikes it while in motion and completes work of elevation.

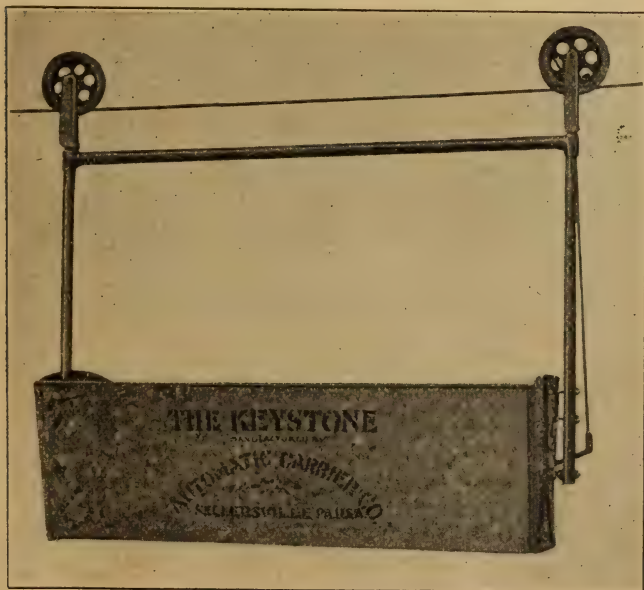
Price on application.

GREEN MOUNTAIN SILO.

It is an acknowledged fact that the most successful and the most economical means of producing milk or raising young stock is attributed to the use of the silo. And with the high price of feed it is a safe estimate that the profits from the farm can be increased 25 per cent. by the use of the silo.

This is a round silo, the only shape which will preserve ensilage in perfect condition. The construction is most excellent, the best of spruce and white pine being used. Staves are planed on four sides, and matched and beveled to fit the circle of the silo. The front is strong and rigid, doors are air tight, and heavy hoops and rods insure the silo keeping tight and in shape at all times.

Every silo dipped in creosote preservative unless otherwise ordered. Roofs priced separately. Specifications furnished on any sizes wanted. Let us know your requirements and we will **quote you promptly.**

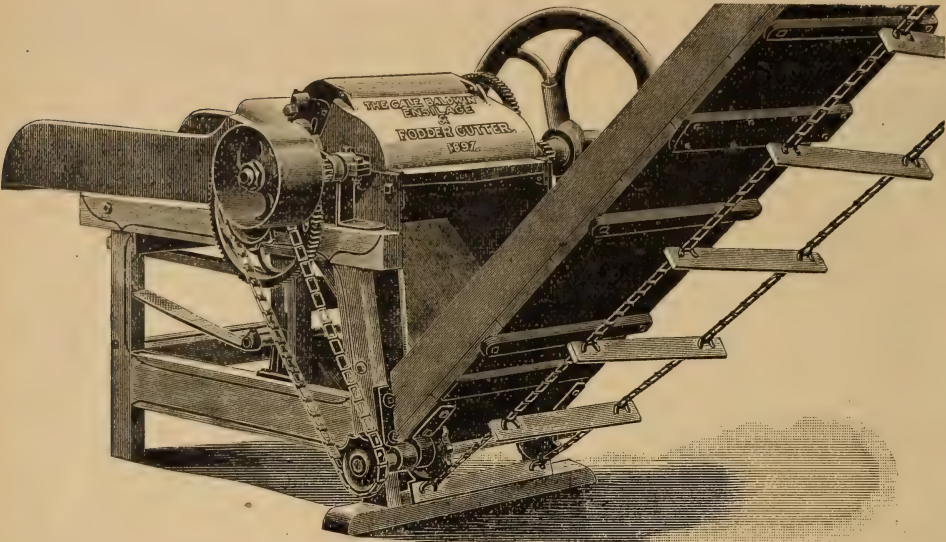


KEYSTONE LITTER CARRIER.

This cut represents the Keystone Automatic Galvanized Iron Litter Carrier. It is forty-eight inches long, sixteen inches deep, twenty-four inches wide at the top, and sixteen inches wide at the bottom, giving it a shape which affords the greatest ease in dumping and at the same time allows it to regain filling position before being released. The frame of the carrier is composed of three pieces of galvanized tubing, held in place by special service connections, the whole making the strongest and easiest operating litter carrier on the market.

Price on application.

THE GALE-BALDWIN
ENSILAGE AND FODDER CUTTER.



A very successful machine made for light power, and one which is easy to feed, easy to keep in order, and is very durable.

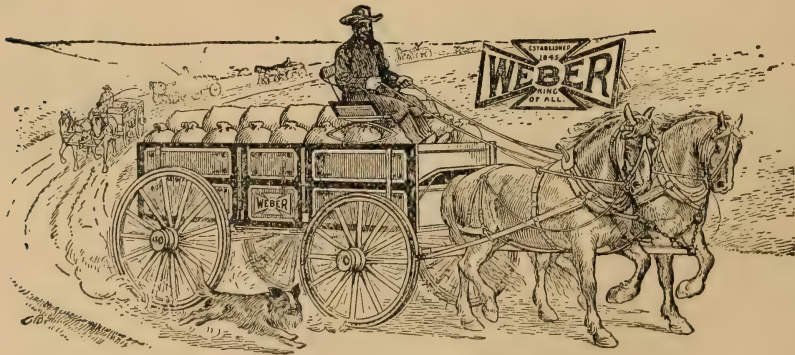
Cuts with great rapidity hay, straw, corn stalks, ensilage, etc., and the improvements lately made have proved to be exactly what was needed to make this machine one of the most perfect and easiest working Ensilage and Fodder Cutters.

POWER CUTTERS—WITH TWO KNIVES.

No.	Length of Knives, Inches.	Length of Cut, Inches.
13a	13	1
13½	13½	1
14a	15	1
14½	15½	1
16	16	1
15a	18	1

Prices on application.

WEBER FARM WAGONS.



The man who uses Weber wagons will use no other.

Weber wagons are made for every purpose and for every clime. They are wagons that will stand unlimited hard usage and will give satisfaction under all conditions. They are constructed of the best oak and hickory only. A practical farmer will instantly realize the enduring, wear-resisting qualities of these woods. In addition to the select materials, Weber wagons are protected by the best quality of paint and varnish. The finish not only looks but wears well, and the purchaser of a Weber wagon can pride himself upon the durability and attractiveness of his wagon.

Prices on application.

THE CHICOPEE CORN HUSKER.

FOR BOTH STALK AND PICKED CORN.

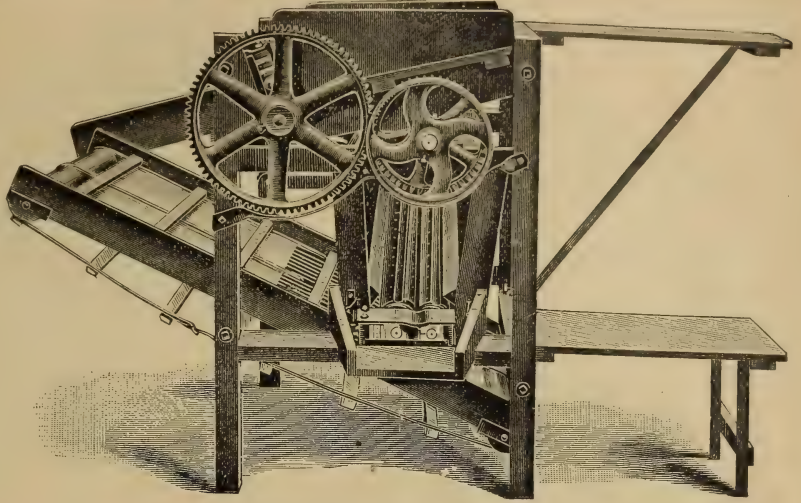
This is a most useful and highly desirable machine for the individual farmer. Nothing like it heretofore has ever been placed upon the market, that will approach it for ease and rapidity of doing the work, or in the small amount of power required to operate it.

A two horse tread power, or three to five horse power gasoline engine will run it to its full capacity, which requires that the main driving shaft should have a speed of not more than 300 R. P. M. Stalks fall from the apron at the rear, and can then be taken and rebound the same as when husked by hand. This is a great advantage over the large machines now offered for a like purpose.

This machine has a capacity for husking from 25 to 50 bushels an hour, according to the condition and quality of the corn.

We guarantee the "Chicopee" to husk the corn and separate the ears from the stalks without material injury to the grains of corn.

Price on application.



CHICOPEE REVERSIBLE SULKY PLOW.

As shown in the cut, a right and left steel flat-land plow is mounted upon a steel beam, one being at right angles with the other, and easily revolved by unlocking a hand lever at the rear of the driver, the weight of the upper plow causing the lower to raise. In this way a furrow may be turned either to the right or left, so that the lands are

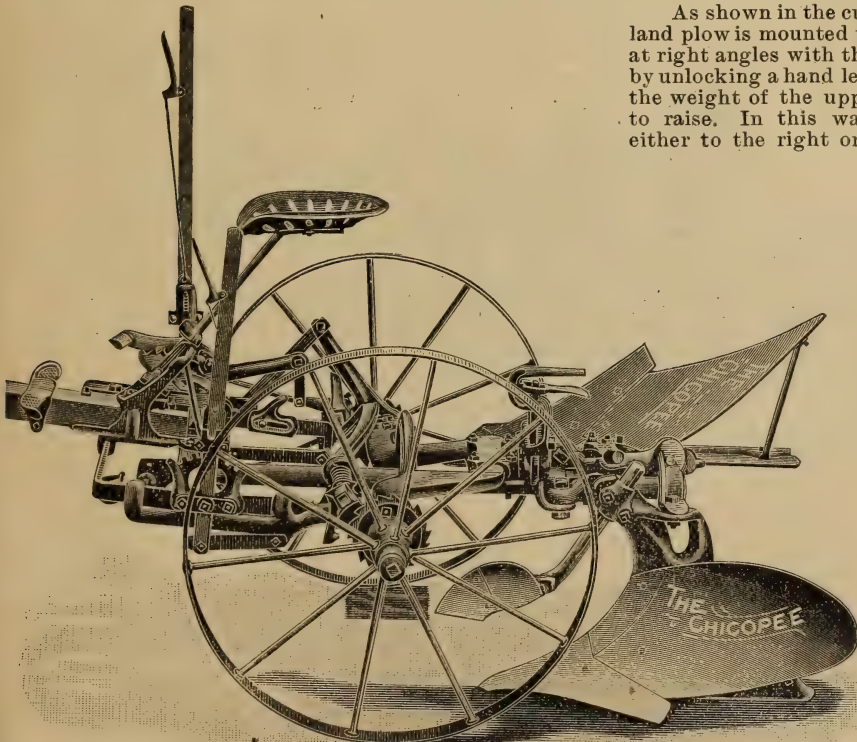
left level without dead furrows. Each plow has an easy adjustment to make it cut a wide or narrow furrow, and is raised out of the ground by a perfect working power lift, and set in again by a foot lever, so that the operator has both hands with which to manage his team. With the adjustable seat the operator always sits in a level position, and on the uppermost side in plowing steep side hill land, preventing the plow from tipping.

With the hand lever that is turned backward (not shown in cut), the power lift can be operated by the driver when walking.

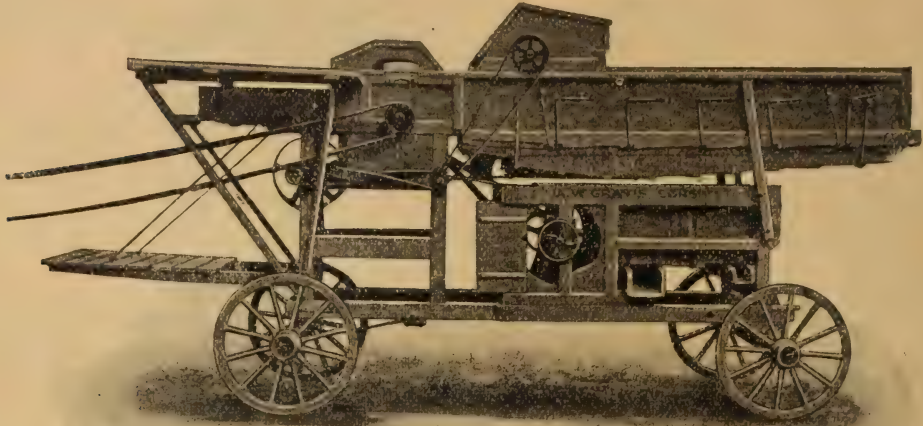
Neck yoke, evener, whiffletrees, which answer for two or three horses abreast, are sent with each plow.

Either jointers, or straight or rolling coulters are furnished, but, if not otherwise ordered, jointers will be sent with each plow.

Price on application.



GRAY'S NEW THRESHER NOS. 303-304, WITH POWER BAGGER, STACKER, ETC.

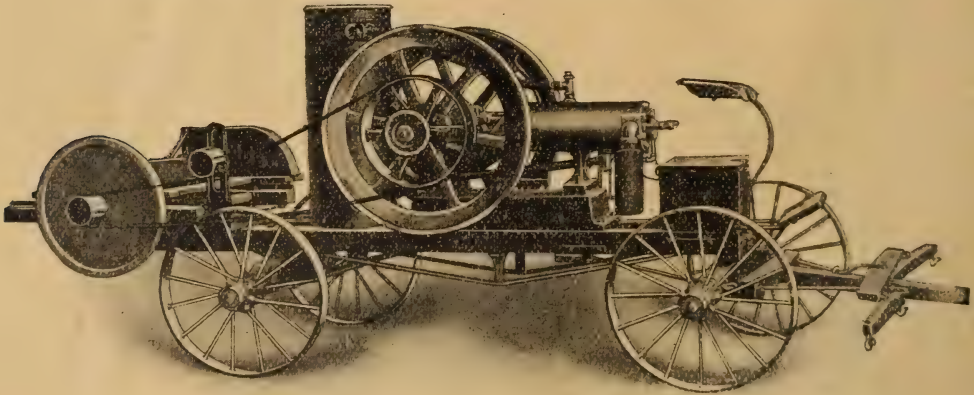


This thresher has been remodeled and reconstructed, and while built along the lines of regular threshers a number of radical changes have been made, one of the principal ones being that it is arranged so that it commences to separate the grain from the straw as soon as it leaves the cylinder, thus meeting the special benefit claimed for the undershot threshers.

It is built especially to meet the demand for use with gasoline engines, is made with 18 x 30 cylinder, but two different sizes of separators have been added to admit using different size engines and are numbered 303 and 304.

Price on application.

GRAY'S 6-HORSE POWER ENGINE.



Above cut shows a 6-horse power Gray gasoline engine mounted on No. 1 trucks, with circular saw machine attached, arranged to run with straight belt and tightener. Saw can be removed instantly, leaving the engine free to use in running other machinery.

IMPROVED GRAY GASOLINE ENGINE.

EQUIPPED WITH MAKE AND BREAK IGNITION (WORKING SIDE).

The speed regulator is a very simple device, by which the speed of the engine can be changed instantly while it is in motion.

The governor is of the "hit and miss" type, the exhaust valve being held open and the inlet valve being held closed, or motion reversed, while governor is operating, thereby supplying the engine automatically with fuel according to the amount of work done, and effectually preventing waste of fuel. It is extremely sensitive, reliable and durable.

Price on application.

GRAY'S INDEPENDENT DRAG SAW MACHINE.

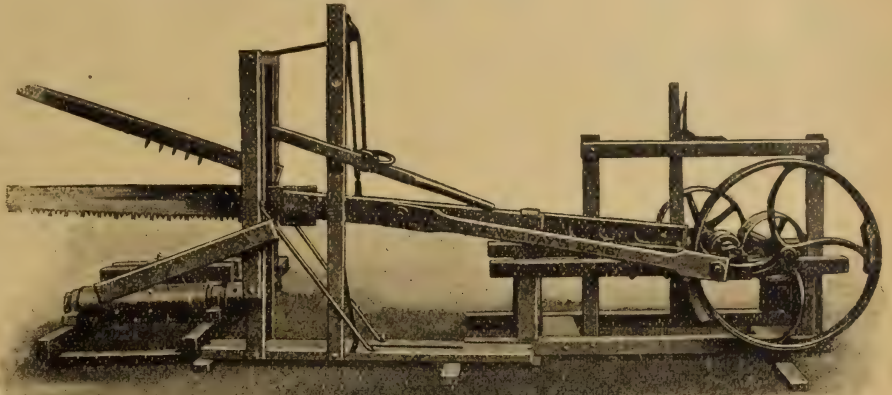
FRICITION DRIVE,
to run by Engine or other Power.

This is the latest and best drag sawing machine on the market.

One of the most important points in using the drag saw is to be able to start it slowly, thus removing any danger of breaking or bending the saw, and this is accomplished perfectly by using the friction transmission. Another feature is to be

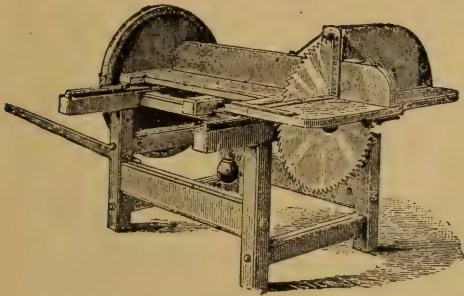
able to stop instantly, and this is arranged for in this machine as the moving of the brake lever releases the friction pulley, at the same time applies the brake on the balance wheel, thus stopping the machine instantly.

By changing the size of the driving pulley on the counter shaft, these machines may be adapted to almost any style of power.



Price on application.

Gray's Circular Saw Machine with Extended Table.



These are made with a table both sides of the saw, which is better adapted for sawing long wood, and can be used for sawing four-foot wood into stove wood. Saw machines made in this way can be used by one person sawing, as there is a rest for the wood both sides of the saw.

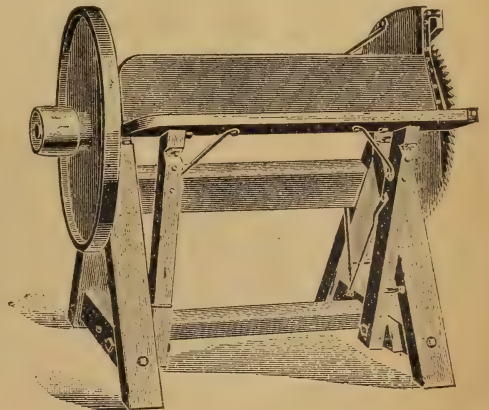
Machine equipped with either a 24-inch, 26-inch or 28-inch saw.

If made for a larger than 28-inch saw there will be an extra charge for frame, as it has to be made larger.

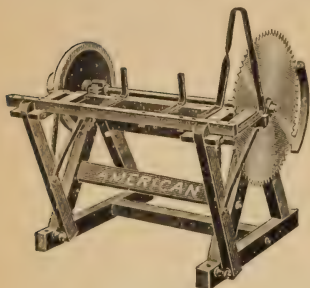
Gray's Circular Saw Machine with Swing Table.

To meet the demand for a lower-priced swing table saw, we offer the machine as above, except made with swing table.

Price on application.



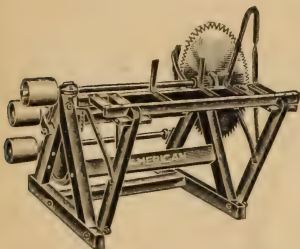
AMERICAN "CLIPPER" WOOD AND POLE SAWS.



No. 3. Cord Wood Saw.

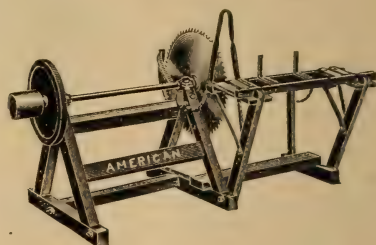
With extension table for cutting poles, or four or eight foot cord wood. By changing the iron guard to the opposite end of the tilting table, this machine can be set up exactly as No. 3.

Mandrel $1\frac{7}{16}$ " diameter, 52" long. From saw to balance wheel 42". Mandrel pulley 6" x 6". Larger pulley at extra cost. Takes saws from 20" to 30" with $1\frac{1}{4}$ " hole. Shipping weight 280 pounds. Speed 1000 to 1500 r. p. m.



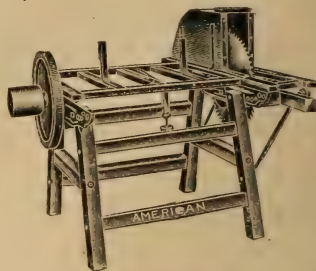
No. 5. Wood or Pole Saw.

For those preferring a sliding table wood saw we offer the No. 6 machine. It is built in same manner as the other machines with same mandrel, balance wheel and pulley, and will take saws of any size from 20" to 30" with $1\frac{1}{4}$ " hole. The carriage slides on iron ways with an easy movement and is counter-balanced by weight. When carriage is in forward position the saw is entirely covered by the hood. Shipping weight 335 pounds.

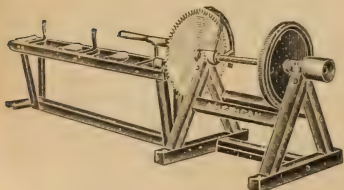


No. 4. Wood or Pole Saw.

Mandrel $1\frac{7}{16}$ " diameter, 52" long. From saw to balance wheel 42". Mandrel pulley 6" x 6". Larger pulley at extra cost. Takes saws from 20" to 30" with $1\frac{1}{4}$ " hole. Shipping weight 325 pounds. Speed 1000 to 1500 r. p. m.



No. 6. Sliding Table Cord Wood Saw.



No. 8.

No. 8 is similar in construction to No. 3, but with longer table. Mandrel $1\frac{7}{16}$ " diameter, 52" long. From saw to balance wheel 42". Mandrel pulley 6" x 6". Larger pulley at extra cost. Takes saws from 20" to 30" with $1\frac{1}{4}$ " hole. Shipping weight 325 pounds. Speed 1000 to 1500 r. p. m.

Prices quoted on application.

DEYO STATIONARY GASOLINE ENGINES.

1½ TO 16 HORSE POWER.

Notice the Many Advantages to Be Found in These Engines, over Any Others.

The Deyo has few working parts, which means small repair bill and minimum trouble.

Horizontal type insures perfect lubrication and long wear of piston and cylinder.

Automatic regulation always insures a perfect mixture of air and gasoline and therefore economy.

Gasoline storage in hollow, cast-iron base, which is part of main frame. No danger from leakage.

Centrifugal type fly-wheel governor. Speed may be changed from 100 to 600 revolutions while the engine is running.

Separate and removable cylinder with solid head entirely eliminates packing troubles.

Removable and interchangeable valve cages allow taking out of valves for inspection or cleaning without trouble or changing adjustments.

Exhaust valve positively operated by single lever. Inlet valve automatically locked to seat on idle stroke. No complicated mechanism to get out of order.

Large exhaust opening allowing burnt gases to escape quickly, saving unnecessary heat and wear.

Ignition by jump spark. Spark plug placed directly in end of the cylinder which gives the spark in the proper place, insuring perfect and rapid combustion.

Extra long main bearings set at an angle of 45 degrees.

Crank shaft of large proportion, drop forged from solid billet of open hearth steel.

Venturi type of suction mixer, doing away with all moving parts as well as gasoline pump. Absolutely no pump to pack, as there is none on the engine.

Large water space around the cylinder and both valves, giving ample protection from excessive heat.

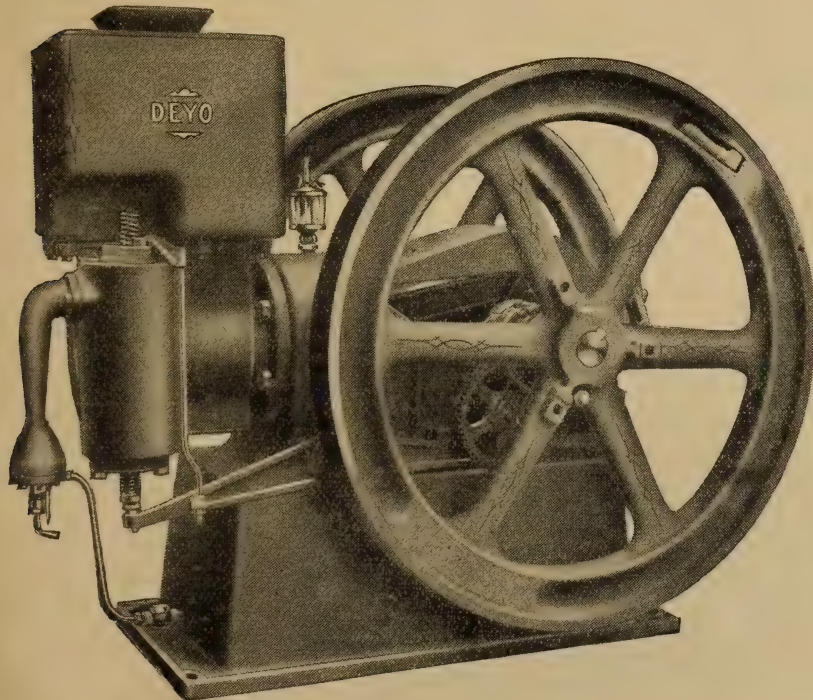
Mixer fitted with air-throttle, throttling the air in the throat of the mixer, increasing the air velocity at this point and making the engine exceptionally easy to start, especially in cold weather.

Separate hopper detachable at a point just above cylinder line. A plate may be substituted in place of hopper for gravity or pump circulation. Under side of water jacket fitted with breaking plate to prevent damage to cylinder in case of freezing.

All engines equipped with full set of oilers and wrenches, muffler, exhaust fittings, complete battery, belt pulley, repair part price list and instruction sheet. No extras to buy.

SPECIFICATIONS.

Size of engine,	1½	2½	3½	5	6½	9	13	16
Speed,	500	500	500	450	425	400	380	350
Floor space, inches,	14 x 26	19 x 28	19 x 30	26 x 42	32 x 49	32 x 54	39 x 63	39 x 65
Shipping weight, pounds,	300	500	700	1100	1500	1700	2600	3000
Plain pulley,	5 x 3	6 x 4	10 x 4	12 x 5	14 x 6	16 x 6	18 x 8	18 x 8



DEYO STATIONARY ENGINE.

EQUIPMENT.

Pulley as above, battery box containing dry cells, coil, two spark plugs and wire, muffler, complete set wrenches, oil cups, oil can, starting handle, can cylinder oil, box hard grease.

Friction clutch pulley, can be furnished, at additional cost, on all stationary engines over 3½ horse power.

**Price
on
application.**

DEYO PORTABLE GASOLINE ENGINES.

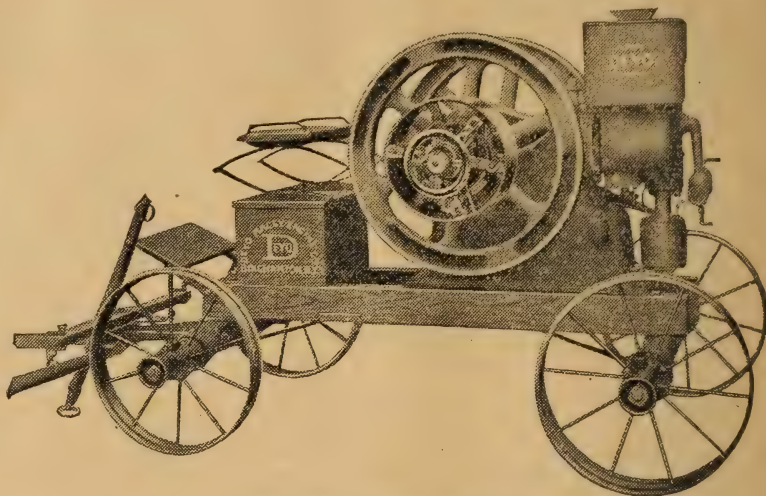
5 TO 16 HORSE POWER.

SPECIFICATIONS OF DEYO PORTABLE ENGINES.

Size of engine.....	5	6½	9	13	16
Speed.....	450	425	400	380	350
Weight.....	1600	2000	2200	3100	3500
Clutch pulley.....	14 x 6	18 x 8	18 x 8	24 x 8	24 x 8

EQUIPMENT.

Cover for engine, whiffletrees and neck yoke, spring seat, friction clutch pulley, battery box containing dry cells, coil, two spark plugs and wire, muffler, complete set wrenches, oil cups, oil can, can cylinder oil, box hard grease.



DEYO PORTABLE ENGINE.

Price on application.

DEYO DEEP WELL PUMPING OUTFIT.

SPECIFICATIONS.

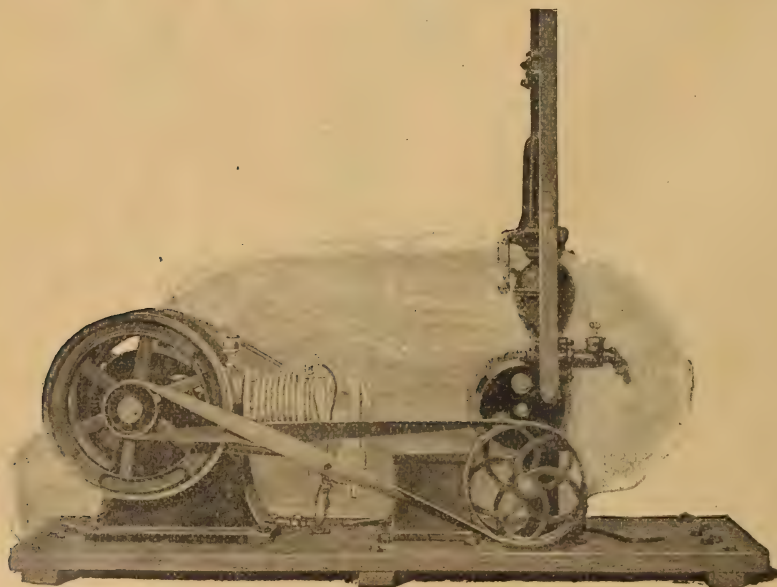
Deyo 2 or 3 horse power air-cooled engine with full equipment.

Back geared pump jack.

Standard deep well force pump.

Our back geared pump jack will fit any wind mill pump standard.

Engine is belted direct to jack as shown. We furnish jack and belt with engine if desired.



ENGINE AND PUMP WITH BACK GEARED JACK.

Price on application.

LETZ GRINDING MILLS.

Principal features that make the Letz Burrs and Grinders stand forth are:

**FINE GRINDING,
SILENT RUNNING,
LONG LIFE,
LIGHT DRAFT,
SELF-SHARPENING.**

PLATES can be changed by anyone in a few minutes.

SELF-ALIGNMENT KNUCKLE Burr Holder.

WET, DAMP or OILY GRAIN is a delight to the Letz Grinder.

HARD-OIL GREASE CUPS on every bearing.

FINE GRINDING. The Letz strongest feature is that they are warranted to grind wheat screenings, oat hulls, alfalfa hay after being cut to one-half inch lengths, also cob and corn with all the husks equally as fine as can be done on attrition or French burr grinders. Table meal is a specialty of the Letz Burr.

The Letz Burrs have stood the test for twenty-one years and all their users certify that they cannot be equaled in fine grinding and long life of burrs.

Power required—from 2 to 5 horse power.

Capacity—5 to 25 bushels ear corn per hour.

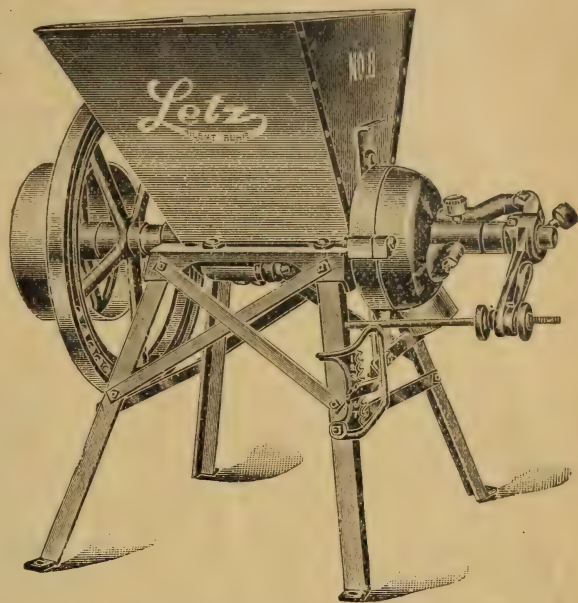
Plates—8 inches diameter.

Speed—200 to 600 revolutions per minute.

Pulley—8, 10 or 12 inches diameter, 4 inch face.

Weight—230 pounds.

Price on application.



No. 8 LETZ COMBINE GRINDER.

Peerless Feed Grinding Mills.

These mills are designed to meet the demand for mills that can be operated with small power, and still have capacity to do a reasonable amount of work. They are built of iron and steel excepting the hopper, and have proven great sellers. They are equipped with patented machine cut grinding plates, ball bearing end thrust, quick release lever, babbitted split boxes, adjustable feed, solid crusher roll and self lining plates.

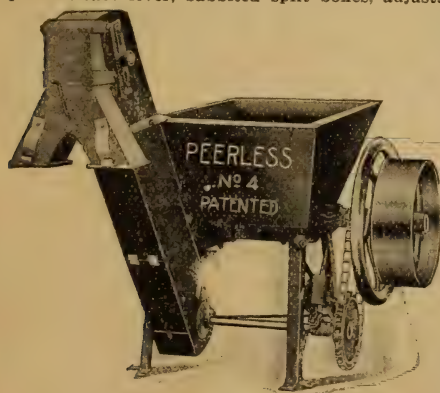
Power required, from two to five horse power.

Capacity five to twenty-five bushels ear corn per hour.

Speed, 300 to 500 revolutions per minute.

Pulley, 14 x 4 inches.

These mills will also grind shelled corn and small grain successfully.



The following sizes, Nos. 4, 5, 10, 40 and 50, carried in stock.

Price on application.

Ann Arbor

"THE BALER FOR BUSINESS"

ANN ARBOR "COLUMBIA" HAY PRESS.

The capacity of this machine runs from forty to seventy tons per day. It makes bales weighing from 100 to 160 pounds, according to the operator's wishes, requiring but 8 to 12 horse power to do the work.

The feed hole is but forty-two inches from the ground. The hay can be pitched directly from the windrow under the automatic self-feeder, thus saving a man on top of the machine as required by all other belt power presses.

This press is equipped with automatic division block dropper, bale length indicator, etc. It embodies all the latest ideas of steel press construction, and is bound to give the very best satisfaction.

We guarantee the "Ann Arbor" to be capable of baling just as much hay, if not more, under equal conditions as any other press on the market, and to **do it with a lower average repair bill.** We guarantee it to be well made, of good material, and by good mechanics, and we will furnish free the first season any part defective in workmanship or material.

No. "35" and Engine Complete on 4 Wheels

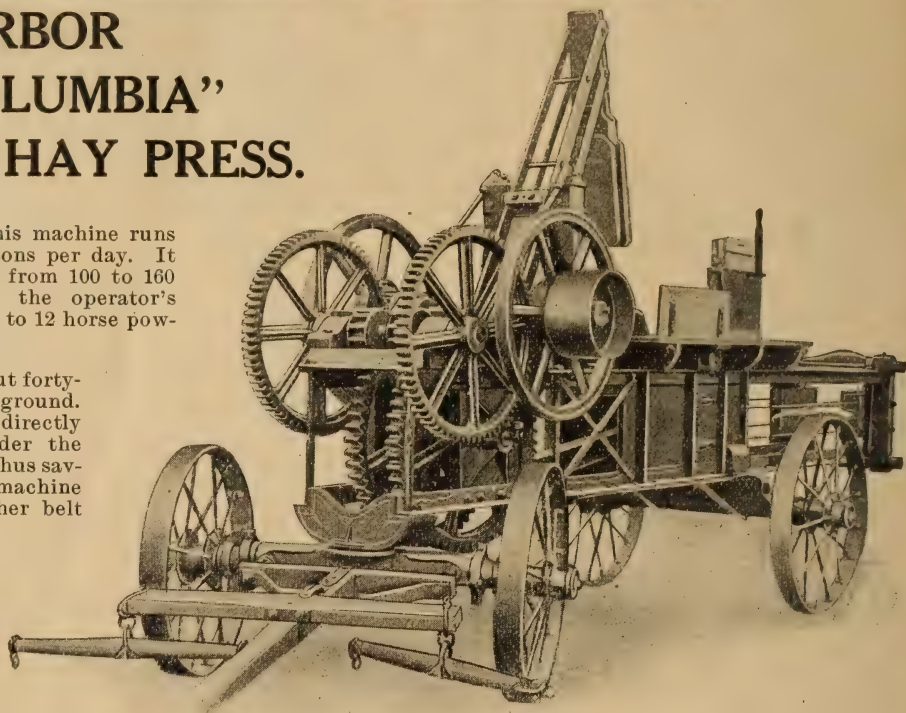
the handiest, speediest and most economical baling outfit, making bales of one hundred pounds and less. It will bale hay for less money than any other baler on the market. This machine is equipped with the same powerful self-feeder, the same size feed hopper, the same handy, effective block dropper and bale length indicator used on the double geared Ann Arbor "Columbia", and can be run with from 6 to 10 horse power.

No. "20" Combination.

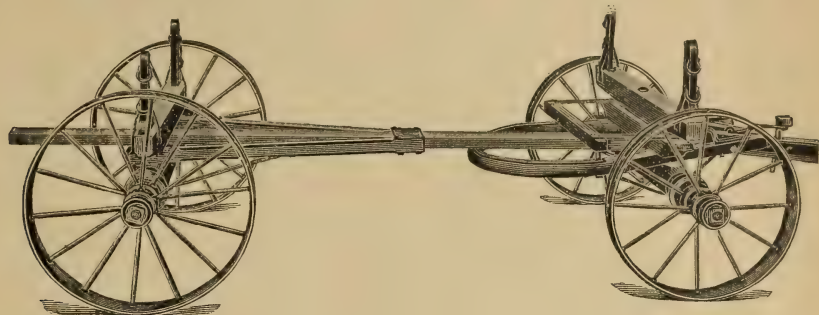
This press is equipped with the same patented self-feeder that is used on all of the well known and popular "Ann Arbor" belt power balers. Most all self-feeders on horse presses have to be helped by the man feeding if they make any headway, but this belt power press has an absolute self-feeder, the best in the United States without any question. All you have to do is to place the hay over the feed hole. The feeder does the rest at a rate of seventeen to twenty beats per minute.

The block dropper is the same that is used on all these machines, but unlike all other belt power balers, this machine has a long feed hopper opening like a horse press. Makes bales weighing from 85 to 120 pounds, and requires only from $3\frac{1}{2}$ to 5 horse power.

Prices on application.



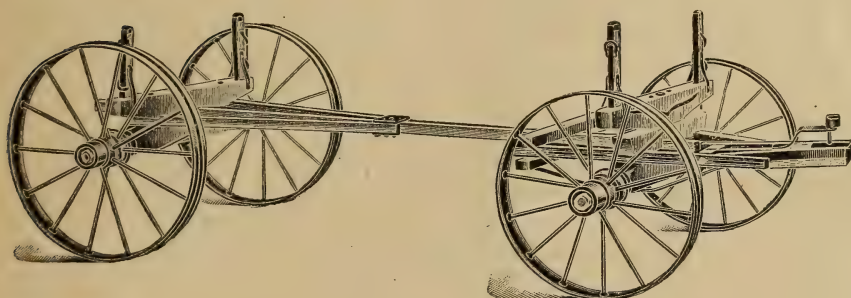
STEEL CONSTRUCTED FARM TRUCKS.



No. 16.

30 INCH X 34 INCH WHEELS.

Equipped with full iron circle, and very heavily ironed throughout.



No. 15.

28 INCH X 30 INCH WHEELS.

Durably built, but not as heavily ironed as No. 16.

We emphatically recommend these trucks as adapted for all kinds of farm work, being exceptionally well made, and so constructed as to carry any style farm wagon box. Are of especial value in hauling **heavy loads**, being equipped with that end in view.

The frames are solidly put together, and the low, broad-tired, well-built steel wheels, with their skein axles, will easily carry any reasonable weight.

Each truck furnished complete with two-horse hitch, and ready for work in every particular.

Write for quotations.

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